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# Ohio University Undergraduate Catalog 2004-2005

The fees, programs, and requirements contained in this catalog are effective with the 2004 fall quarter. They are necessarily subject to change at the discretion of Ohio University. It is the student's responsibility to know and follow current requirements and procedures at the departmental, College, and University levels.

Ohio University is an affirmative action institution.

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of University Publications

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# Ohio University Mission Statement

**Ohio University is a public university providing a broad range of educational programs and services. As an academic community, Ohio University holds the intellectual and personal growth of the individual to be a central purpose. Its programs are designed to broaden perspectives, enrich awareness, deepen understanding, establish disciplined habits of thought, prepare for meaningful careers and, thus, to help develop individuals who are informed, responsible, productive citizens.**

## Undergraduate Education

Ohio University offers undergraduate instruction on both the Athens campus and the regional campuses. Undergraduate programs, designed to contribute to intellectual and personal development and career goals of students, emphasize liberal studies.

Undergraduate major programs, preprofessional, and professional programs prepare students for employment in a variety of careers and for continued study. Two-year technical and associate's degree programs, reflecting employment opportunities, as well as the general career interests of students, are taught primarily at the regional campuses.

At the Athens campus, instruction is combined with residence life and other extracurricular programs in an effort to create a collegiate experience integrating learning and living.

## Graduate and Professional Education

Ohio University offers graduate and professional education. The primary forms of activity are advanced and specialized courses of study, supervised practical experience, and research.

The essential concentration of faculty, material, and space resources dictates that the activity associated with graduate and professional education will be centered on the Athens campus. This activity is not limited to that campus; research and instruction are carried out at various locations.

## Scholarship, Research, and Creative Activity

Ohio University is a center for scholarship, research, and creative activity involving the creation, testing, and dissemination of knowledge, understanding, expressions, and technique.

As a public university, Ohio University has a particular responsibility to address societal issues and needs through such scholarship, research, and creative activity. The scholarly and artistic activity of the faculty enhances the teaching function at all levels of the student experience.

## Extended Community

Ohio University serves an extended community. The public service mission of the University, expressed in such activities as public broadcasting and continuing education programs, reflects the responsibility of the University to serve the ongoing educational needs of the region. The regional campuses perform a critical role in serving this extended community.

The University has state-wide responsibility for an extended university program using independent study through correspondence.

It is the purpose of these extended University programs to serve a diverse range of educational needs, from professional groups requiring continuing courses of study related to the practice of their professions, to individuals desiring occasional or special interest study.

Ohio University contributes to cultural and economic development, health care, and to other human services.

Adopted January 15, 1977, and reaffirmed January 1988.

# A Commitment to Diversity

**Ohio University is committed to promoting an atmosphere where understanding and acceptance of cultural and racial differences are ensured.**

As President Robert Glidden stated in his 1995 State of the University Address: "A commitment to academic excellence carries with it the responsibility of seeing to it that Ohio University is a just and diverse community—that everyone who comes here has an equal opportunity to develop his or her talents to the fullest. Education is not well served by homogeneity; it is diversity that enriches learning and diversity that prepares our students for the realities of the world—especially the world of the future. We need to find more ways to engage the full range of abilities of all our people, and we need especially to attend to changes that will promote recognition and appreciation of accomplishments by women and minorities so that all persons in the University are equally respected and empowered."

Ohio University is bound morally, emotionally, and intellectually to pursue the realization of a vision of real community. As a result, it is committed to equal opportunity for all people and is pledged to take direct and affirmative action to achieve that goal. In upholding its commitment, Ohio University will not accept racism, sexism, homophobia, bigotry, or other forms of violations of human rights. Such actions are inconsistent with, and detrimental to, the values that we hold essential as an institution of higher learning. All students, faculty, and staff of Ohio University are expected to uphold the University's commitment to a just and diverse community and to take a leadership role in ensuring an atmosphere of equality.

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# Telephone Numbers

The area code for all campus numbers is 740.

The University switchboard number is 593-1000.

## University Services

- 593-4100 Admissions
- 593-4300 Alumni Relations
- 593-1174 Athletic Department
- 800-575-4100 Athletic Ticket Office
- 593-4130 Bursar
- 593-4125 Cashier
- 593-9140 Disability Services
- 593-4141 Financial Aid and Scholarships
- 593-4800 Fine Arts Box Office
- 593-4090 Housing
- 593-4027 Multicultural Programs
- 593-1780 Public Occasions Box Office
- 593-4191 Registrar's Office
- 593-4025 Student Activities
- 593-1660 Student Health Service
- 593-1911 University Police
- 593-4186 Veterans Affairs
- 593-2097 Visitors Center

## Colleges

- 593-2850 Arts and Sciences
- 593-2002 Business
- 593-4883 Communication
- 593-4400 Education
- 593-1474 Engineering and Technology
- 593-1808 Fine Arts
- 593-9334 Health and Human Services
- 593-2723 Honors Tutorial College
- 593-1935 University College

# Academic Calendar 2004–2005

## Fall Quarter

### August 2, Monday

Last day to pay fees for fall quarter to avoid late payment charge.

### September 2, Thursday

Residence halls open for new students only at noon.

Limited dining hall services in selected locations as advertised.

### September 3, Friday

Orientation for all new first year and transfer students not attending summer precollege.

Residence halls open for new students only at 9 a.m.

Limited dining hall services in selected locations as advertised.

### September 4, Saturday

Residence halls open at 9 a.m. for new and upperclass students.

Limited dining hall services in selected locations as advertised.

Last day to decrease or cancel meal plan for academic year (for students with 90 or more credit hours).

Admissions, bursar, housing, registrar, and financial aid offices open

10 a.m.–4 p.m. (limited services will be available).

Welcome Weekend activities for all new first year and transfer students begin at 4:30 p.m.

### September 5, Sunday

Admissions, bursar, housing, registrar, and financial aid offices open 10 a.m.–4 p.m. (limited services will be available).

Limited dining hall services in selected locations as advertised.

### September 6, Monday

Last day to cancel registration for fall quarter (remove all courses and fees).

First meal served on board plan (brunch); Boyd, Nelson, Jefferson, and Shively dining halls open.

Labor Day (University Closed).

### September 7, Tuesday

FALL QUARTER OPENING DATE.

Fall quarter classes begin—Athens and regional campuses.

### September 10, Friday

Last day to check out of residence hall to receive 75 percent housing refund.

### September 14, Tuesday

Last day to add a fall quarter class without instructor's approval.

### September 17, Friday

Last day to check out of residence hall to receive 50 percent housing refund.

### September 21, Tuesday

Last day to register for fall quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:

September 22–28, \$40;  
September 29–October 5, \$60;  
October 6–12, \$80;  
October 13–19, \$100

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for fall quarter (all fall quarter courses removed from the student's academic record).

Last day to apply for pass/fail grading option for fall quarter class (apply at your college student services office or regional campus student services office).

Last day to change a grading option for fall quarter class (credit to audit, audit to credit, pass/fail to regular grade option, or regular grade option to pass/fail).

Last day to add a fall quarter class (instructor's permission required).

Last day to remove a fall quarter class from student's academic record (use Web Registration or TRIPS); fall quarter classes dropped September 22–October 11 will remain on student's academic record with WP/WF grade.

Last day to change college/major for fall quarter (contact your college student services office or regional campus student services office).

### September 22, Wednesday

Fall quarter classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

Fall quarter classes dropped from this date through October 11 (last day to drop a class) will remain on student's academic record with WP/WF grade.

### September 24, Friday

Last day to check out of residence hall to receive 25 percent housing refund.

### September 29, Wednesday

Last day to apply for graduation for fall quarter.

NOTE: Official graduation (degree conferral date) is November 24. Commencement is held at the conclusion of spring quarter.

### October 8–10

Parents' Weekend

### October 9, Saturday

Honors Convocation for undergraduate scholarship students and parents.

### October 11, Monday

Last day to drop a class from your fall quarter schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

### October 18, Monday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

Academic advising begins for winter quarter preregistration (contact advisor/college/department/school/regional campus student services office as appropriate).

### October 22–24

Homecoming Weekend

### October 25, Monday

Winter quarter preregistration begins.

### November 11, Thursday

Veterans Day (University offices officially closed; classes NOT in session).

### November 15, Monday

Last day to withdraw (drop ALL classes) from the University for fall quarter (courses remain on student's academic record with WP/WF grades, NO FEE REFUND).

### November 16, Tuesday

Last day of classes for fall quarter.

### November 17, Wednesday

Reading Day.

### November 18, Thursday

Fall quarter examinations begin.

### November 23, Tuesday

Last meal served on board plan (lunch).

Residence halls close at 5 p.m.

### November 24, Wednesday

FALL QUARTER CLOSING DATE.

### November 25, Thursday

Thanksgiving Day (University closed).

### November 26, Friday

Columbus Day holiday observed (University closed).

### November 29, Monday

Deadline (10 a.m.) for all grades, including pending grades from previous quarters for degree candidates.

### December 1, Wednesday

Last day to pay fees for winter quarter to avoid late payment charge.

### December 23, Thursday

Presidents' Day holiday observed (University closed).

### December 24, Friday

Christmas Day holiday observed (University closed).

### December 31, Friday

New Year's Day holiday observed (University closed).

Holidays that result in the closing of the University are listed above. Also this quarter: September 15 at sundown—Rosh Hashanah begins; September 24 at sundown—Yom Kippur begins; October 14 at sundown—Ramadan begins.

For a complete listing of all national, religious, ethnic, and other holidays, visit <http://www3.kumc.edu/diversity/>.

# Winter Quarter

## October 18, Monday

Academic advising begins for winter quarter preregistration (contact advisor/college/department/school/regional campus student services office as appropriate).

## October 25, Monday

Winter quarter preregistration begins.

## December 1, Wednesday

Last day to pay fees for winter quarter to avoid late payment charge.

## December 3, Friday

New student orientation day.

## January 1, Saturday

Residence halls open at 12:00 noon

Housing office open 11 a.m.–4 p.m.

New Year's Day (University closed).

## January 2, Sunday

Last day to cancel registration for winter quarter (remove all courses and fees).

Residence halls open at 9 a.m.

Registrar, bursar, and housing offices open 10 a.m.–2 p.m. (limited services will be available).

Last day to decrease or cancel meal plan (for new students with 90 or more credit hours).

New student orientation.

## January 3, Monday

WINTER QUARTER OPENING DATE.

Winter quarter classes begin—Athens and regional campuses.

First meal served on board plan (breakfast).

## January 8, Saturday

Last day to check out of residence hall to receive 75 percent housing refund.

## January 10, Monday

Last day to add a winter quarter class without instructor's approval.

## January 14–16,

Dads' Weekend.

## January 15, Saturday

Last day to check out of residence hall to receive a 50 percent housing refund.

## January 17, Monday

Martin Luther King Day (University offices officially closed; classes NOT in session).

## January 18, Tuesday

Last day to register for winter quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:

January 19–25, \$40;  
January 26–February 1, \$60;  
February 2–8, \$80;  
February 9–15, \$100

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for winter quarter (all winter quarter courses removed from the student's academic record)

Last day to apply for pass/fail grading option for winter quarter class (apply at your college student services office or regional campus student services office)

Last day to change a grading option for winter quarter class (credit to audit, audit to credit, pass/fail to regular grade option, or regular grade option to pass/fail).

Last day to add a winter quarter class (instructor's permission required).

Last day to remove a winter quarter class from student's academic record (use Web Registration or TRIPS); winter quarter classes dropped January 19–February 7 will remain on student's academic record with WP/WF grade.

Last day to change college/major for winter quarter (contact your college student services office or regional campus student services office).

## January 19, Wednesday

Winter quarter classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

Winter quarter classes dropped from this date through February 7 (last day to drop a class) will remain on student's academic record with WP/WF grade.

## January 22, Saturday

Last day to check out of residence hall to receive 25 percent housing refund.

## January 25, Tuesday

Last day to apply for graduation for winter quarter

NOTE: Official graduation (degree conferral date) is March 19. Commencement is held at the conclusion of spring quarter.

## February 1, Tuesday

Academic advising begins for spring quarter preregistration (contact advisor/college/department/school/regional campus student services office as appropriate).

## February 4–6

Sibs' Weekend

## February 7, Monday

Last day to drop a class from your winter quarter schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

## February 8, Tuesday

Spring quarter preregistration begins.

## February 11, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

## February 18–20

Parents' Weekend

## March 1, Tuesday

Last day to pay fees for spring quarter to avoid late payment charge.

## March 11, Friday

Last day to withdraw (drop ALL classes) from the University for winter quarter (courses remain on student's academic record with WP/WF grades, NO FEE REFUND).

## March 12, Saturday

Last day of classes for winter quarter.

## March 14, Monday

Winter quarter examinations begin

## March 18, Friday

Last meal served on board plan (dinner)

## March 19, Saturday

Winter quarter closing date.

Residence halls close at 2 p.m.

## March 21, Monday

Deadline (10 a.m.) for all grades, including pending grades from previous quarters for degree candidates.

Holidays that result in closing of the University are listed above.

For a complete listing of all national, religious, ethnic, and other holidays, visit <<http://www3.kumc.edu/diversity/>>.

# Spring Quarter

## February 1, Tuesday

Academic advising begins for spring quarter preregistration (contact advisor/college/department/school/regional campus student services office as appropriate).

## February 8, Tuesday

Spring quarter preregistration begins.

## March 1, Tuesday

Last day to pay fees for spring quarter to avoid the late payment charge.

## March 27, Sunday

Last day to cancel registration for spring quarter (remove all courses and fees).

Residence halls open at 9 a.m.

Registrar, bursar, and housing offices open 10 a.m.–2 p.m. (limited services will be available).

Last day to decrease or cancel meal plan (for new students with 90 or more credit hours).

New student orientation.

## March 28, Monday

SPRING QUARTER OPENING DATE.

Spring quarter classes begin—Athens and regional campuses.

First meal served on board plan (breakfast).

## April 1, Friday

Summer quarter preregistration begins.

## April 2, Saturday

Last day to check out of residence hall to receive 75 percent housing refund.

## April 4, Monday

Last day to add a spring quarter class without instructor's approval.

## April 9, Saturday

Last day to check out of residence hall to receive 50 percent housing refund.

## April 11, Monday

Last day to register for spring quarter. Students who are in attendance by this date but fail to complete all registration procedures must pay a penalty for retroactive registration correction according to this schedule:

April 12–18, \$40;  
April 19–25, \$60;  
April 26–May 2, \$80;  
May 3–9, \$100.

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for spring quarter (all spring quarter courses removed from the student's academic record).

Last day to apply for the pass/fail grading option for spring quarter class (apply at your college student services office or regional campus student services office).

Last day to change a grading option (credit to audit, audit to credit, pass/fail to regular grade option/regular grade option, or regular grade option to pass/fail).

Last day to add a spring quarter class (instructor's permission required).

Last day to remove a spring quarter class from student's academic record (use Web Registration or TRIPS); spring quarter classes dropped April 12–May 2 will remain on student's academic record with WP/WF grade.

Last day to change college/major for spring quarter (contact your college student services office or regional campus student services office).

#### **April 12, Tuesday**

Spring quarter classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

Spring quarter classes dropped from this date through May 2 (last day to drop a class) will remain on student's academic record with WP/WF grade.

#### **April 16, Saturday**

Last day to check out of residence hall to receive 25 percent housing refund.

#### **April 19, Tuesday**

Last day to apply for graduation for spring quarter.

NOTE: Official graduation (degree conferral date) is June 4 (medical), 10 (graduate), 11 (undergraduate). Commencement is held at the conclusion of spring quarter.

#### **May 2, Monday**

Last day to drop a class from your spring quarter schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

#### **May 6, Friday**

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

#### **May 6–8**

Moms' Weekend.

#### **May 9, Monday**

Academic advising begins for fall quarter preregistration (contact advisor/college/department/school/ regional campus student services office as appropriate).

#### **May 16, Monday**

Fall quarter preregistration begins.

#### **May 30, Monday**

Memorial Day (University offices officially closed, classes NOT in session).

#### **June 3, Friday**

Last day to withdraw (drop ALL classes) from the University for spring quarter (courses remain on student's academic record with WP/WF grades, NO FEE REFUND).

#### **June 4, Saturday**

Last day of classes for spring quarter.

Annual Medical Commencement

#### **June 6, Monday**

Spring quarter examinations begin.

Last day to pay fees for summer quarter to avoid late payment charge.

#### **June 10, Friday**

Annual Graduate Commencement.

#### **June 11, Saturday**

Spring quarter closing date.

Annual Undergraduate Commencements.

Last meal served on board plan (breakfast).

Residence halls close at 5 p.m.

#### **June 14, Tuesday**

Deadline (10 a.m.) for all grades, including pending grades from previous quarters for degree candidates.

Holidays that result in closing of the University are listed above. Also this quarter: April 23, 24 in evening–Passover Seder; March 25– Good Friday; March 27–Easter.

For a complete listing of all national, religious, ethnic, and other holidays, visit <http://www3.kumc.edu/diversity/>.

## Summer Quarter

### First Summer Session

#### **April 1, Friday**

Summer quarter preregistration begins.

#### **June 6, Monday**

Last day to pay fees for summer quarter to avoid the late payment charge.

#### **June 19, Sunday**

Last day to cancel registration for first summer session (remove all courses and fees).

Residence halls open at 9 a.m.

Housing office open 9 a.m.–2 p.m.

Last day to decrease or cancel meal plan (for students with 90 or more credit hours).

New student orientation.

#### **June 20, Monday**

FIRST SUMMER SESSION OPENING DATE.

First summer session classes begin– Athens and regional campuses.

First meal served on board plan (breakfast).

#### **June 25, Saturday**

Last day to check out of residence hall to receive 60 percent housing refund.

#### **June 27, Monday**

Last day to register for first summer session.

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for first summer session (all first summer session courses removed from the student's academic record).

Last day to apply for pass/fail grading option for first summer session class (apply at your college student services office or regional campus student services office).

Last day to change a grading option for first summer session class (credit to audit, audit to credit, pass/fail to regular grade option,

or regular grade option to pass/fail).

Last day to add a first summer session class.

Last day to remove a first summer session class from student's academic record (use Web Registration or TRIPS); first summer session classes dropped June 28–July 6 will remain on student's academic record with WP/WF grade.

Last day to change college/major for first summer session (contact your college student services office or regional campus student services office).

#### **June 28, Tuesday**

First summer session classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

First summer session classes dropped from this date through July 6 (last day to drop a first summer session class) will remain on student's academic record with WP/WF grade.

#### **July 2, Saturday**

Last day to check out of residence hall to receive 40 percent housing refund.

#### **July 4, Monday**

Independence Day holiday (University offices officially closed; classes not in session).

#### **July 6, Wednesday**

Last day to drop a class from your first summer session schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

#### **July 12, Tuesday**

First summer session students planning to graduate summer quarter should apply for graduation.

NOTE: Official graduation (degree conferral date) is August 27; final deadline for applying is July 28. Commencement is held at the conclusion of spring quarter.

#### **July 21, Thursday**

Last day to withdraw (drop ALL first session classes) from the University for first summer session (courses remain on student's academic record with WP/WF grades, NO FEE REFUND).

#### **July 22, Friday**

Last day of classes for first summer session.

NOTE: Final examinations are scheduled for the last meeting time of each individual class.

#### **July 23, Saturday**

First summer session closing date.

First summer session only residents must vacate residence halls by 2 p.m.

#### **July 25, Monday**

Deadline (10 a.m.) for all first summer session grades and pending grades from previous quarters for degree candidates.

#### **September 2, Friday**

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).



## Second Summer Session

### April 1, Friday

Summer quarter preregistration begins.

### June 6, Monday

Last day to pay fees for summer quarter to avoid the late payment charge.

### July 24, Sunday

Last day to cancel registration for second summer session (remove all courses and fees).

Residence halls open at 10 a.m. for second summer session students.

New student orientation.

### July 25, Monday

SECOND SUMMER SESSION OPENING DATE.

Second summer session classes begin—Athens and regional campuses.

### July 28, Thursday

Last day to apply for graduation for summer quarter.

NOTE: Official graduation (degree conferral date) is August 27. Commencement is held at the conclusion of spring quarter.

### July 30, Saturday

Last day to check out of residence hall to receive 60 percent housing refund.

### August 1, Monday

Last day to register for second summer session.

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for second summer session (all second summer session courses removed from the student's academic record).

Last day to apply for pass/fail grading option for second summer session class (apply at your college's student services office or regional campus student services office).

Last day to change a grading option for second summer session class (credit to audit, audit to credit, pass/fail to regular grade option, or regular grade option to pass/fail).

Last day to add a second summer session class.

Last day to remove a second summer session class from student's academic record (use Web Registration or TRIPS); second summer session classes dropped August 2–August 10 will remain on student's academic record with WP/WF grade.

Last day to change college/major for second summer session (contact your college student services office or regional campus student services office).

### August 2, Tuesday

Second session classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

Second summer session classes dropped from this date through August 10 (last day to drop a second summer session class) will remain on student's academic record with WP/WF grade.

### August 6, Saturday

Last day to check out of residence hall to receive 40 percent housing refund.

### August 10, Wednesday

Last day to drop a class from your second

summer session schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

### August 25, Thursday

Last day to withdraw (drop ALL second summer session classes) from the University for second summer session (classes remain on student's academic record with WP/WF grades, NO FEE REFUND).

### August 26, Friday

Last day of classes for second summer session.

NOTE: Final examinations are scheduled for the last meeting time of each individual class.

Last meal served on board plan (dinner).

### August 27, Saturday

Second summer session closing date.

Residence halls close at 2 p.m.

### August 29, Monday

Deadline (10 a.m.) for all second summer session grades and pending grades from previous quarters for degree candidates.

### September 2, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

## Full Summer Quarter

### April 1, Friday

Summer quarter preregistration begins.

### June 6, Monday

Last day to pay fees for summer quarter to avoid the late payment charge.

### June 19, Sunday

Last day to cancel registration for full summer quarter (remove all courses and fees).

Residence halls open at 9 a.m.

Housing office open 9 a.m.–2 p.m.

Last day to decrease or cancel meal plan (for students with 90 or more credit hours).

New student orientation.

### June 20, Monday

FULL SUMMER QUARTER OPENING DATE.

Full summer quarter classes begin—Athens and regional campuses.

First meal served on board plan (breakfast).

### June 27, Monday

Last day to add a full summer quarter class without instructor's approval.

### July 4, Monday

Independence Day holiday (University offices officially closed, classes not in session).

### July 5, Tuesday

Last day to register for full summer quarter.

Last day to receive partial refund (80 percent) of registration fees for complete withdrawal from the University for full summer quarter (all full summer quarter courses removed from student's academic record).

Last day to apply for pass/fail grading option for full summer quarter class (apply at your college student services office or regional campus student services office).

Last day to change a grading option for full summer quarter class (credit to audit, audit to credit, pass/fail to regular grade option, or regular grade option to pass/fail).

Last day to add a full summer quarter class (instructor's permission required).

Last day to remove a full summer quarter class from student's academic record (use Web Registration or TRIPS); full summer quarter classes dropped July 6–July 25 will remain on student's academic record with WP/WF grade.

Last day to change college/major for full summer quarter (contact your college student services office or regional campus student services office).

### July 6, Wednesday

Full summer quarter classes dropped will not remove fees for hours dropped; corrected registration that results in increased hours could increase tuition.

Full summer quarter classes dropped from this date through July 25 (last day to drop a full summer quarter class) will remain on student's academic record with WP/WF grade.

### July 25, Monday

Last day to drop a class from your full summer quarter schedule (course remains on student's academic record with WP/WF grade, NO FEE REFUND).

### July 28, Thursday

Last day to apply for graduation for summer quarter.

NOTE: Official graduation (degree conferral date) is August 27. Commencement is held at the conclusion of spring quarter.

### August 25, Thursday

Last day to withdraw (drop ALL full summer quarter classes) from the University for full summer quarter (courses remain on student's academic record with WP/WF grades, NO FEE REFUND).

### August 26, Friday

Last day of classes for full summer quarter.

NOTE: Final examinations are scheduled for the last meeting time of each individual class.

Last meal served on board plan (dinner).

### August 27, Saturday

Full summer quarter closing date.

Residence halls close at 2 p.m.

### August 29, Monday

Deadline (10 a.m.) for all full summer quarter grades and pending grades from previous quarters for degree candidates.

### September 2, Friday

Last day for removing incomplete grades incurred during last enrollment (if not removed, I grade will change to F).

Holidays that result in closing of the University are listed above.

For a complete listing of all national, religious, ethnic, and other holidays, visit <http://www3.kumc.edu/diversity/>.

NOTE: Dates are subject to change at the discretion of the Ohio University Board of Trustees.

## Guidelines and General Information

## Undergraduate Admissions

This section outlines general information about applying for admission to Ohio University. Contact Undergraduate Admissions during regular office hours for more specific information or for application materials. After hours you may request application materials on the Web, by e-mail, or by fax. Our applications are also available online. Visit our Web site to apply electronically, to download and print an application, or to request information.

**Undergraduate Admissions**  
**Ohio University**  
**Chubb Hall 120**  
**Athens OH 45701-2979**  
**Telephone 740.593.4100**  
**Fax 740.593.0560**  
**E-mail [admissions@ohio.edu](mailto:admissions@ohio.edu)**  
**Web <http://www.ohio.edu/admissions/>**

### Admission Requirements and Procedures

#### Selective and Limited Admission

If you are planning to apply to Ohio University, please note that admission is selective—it is granted to the best qualified candidates—and admission to the University does not guarantee admission into a specific program of study. Contact Undergraduate Admissions or refer to the Colleges and Curricula section of this catalog for each college's or school's specific requirements.

#### Categories of Admission

**Freshman Applicant.** If you (1) have or soon will receive a high school diploma from a chartered or accredited secondary school or a General Education Development (GED) diploma, and (2) have not been enrolled for 12 or more quarter hours (or 9 or more semester hours) of coursework at a college or university since completing secondary school, you are considered a freshman applicant. However, if you have earned credit for college courses as a high school student through one of the post-secondary options or other concurrent enrollment programs, you are still considered a freshman applicant.

You must have a high school diploma or a GED diploma by the time you plan to enter college. Consideration for admission is based upon your high school performance (class rank, grade-point average, and curriculum); aptitude test scores (ACT or SAT I); the strength of your high school program; and special ability, talent, or achievement.

If you are considering applying for admission to Ohio University, your high school background should include these courses:

- 1 Four years of English, with an emphasis on composition;
- 2 Three years of mathematics (algebra I, algebra II, plane geometry; precalculus is encouraged for prospective engineering or business majors), one of which should be taken in the senior year;
- 3 Three years of social sciences (history, social studies, etc.);
- 4 Three years of natural sciences (physics and chemistry are encouraged if you plan to pursue an engineering major);
- 5 Two years of foreign language;
- 6 One year of visual or performing arts (art, band, chorus, music, orchestra, theater, etc.).

Some academic departments may have additional admission requirements. Please contact Undergraduate Admissions or refer to the Colleges and Curricula section of this catalog for further details.

Exceptions to this program of study may be made in light of overall academic preparedness.

Home schooled students should contact Undergraduate Admissions for special procedures required of students who have pursued home schooling.

Freshman applicants who have been out of high school for more than 1 year are not required to submit test scores unless requested by Undergraduate Admissions.

To apply, submit a completed application for admission, the nonrefundable \$45 application fee, ACT or SAT I scores (sent directly from the testing agency), and an official high school transcript (sent directly to Undergraduate Admissions from your high school) or GED score report (sent directly to Undergraduate Admissions from the appropriate state GED office, official testing center, or GED Testing Service).

If you are on a non-immigrant visa, you should also review the international applicant section.

**If you are financially disadvantaged, the application fee may be waived upon written recommendation from your high school guidance counselor.**

Beginning in early fall and continuing through March, those who have submitted complete application materials will be notified of their admission status for fall quarter. Admission decisions and notifications are made on a rolling basis for all quarters.

If any special conditions apply to your enrollment, they will be clearly stated in the letter of admission.

Following acceptance for admission, you will receive information about financial aid (if you apply for financial aid) and a residence hall contract and agreement form. Since all freshmen are required to live in University housing, you should submit the \$200 residence hall deposit (by May 1 if you are applying for fall quarter) to confirm your enrollment. Failure to do so may result in cancellation of your admission offer. If space remains, late housing contracts will be accepted and require the \$200 deposit until July 1, after which full payment of the housing charges will be necessary to secure housing. Please refer to the **Housing** section in this catalog to examine housing eligibility and exemption regulations. Refunds of housing deposits will be made until May 1. You and your parents will also receive details about the Precollege Orientation program for new students after your deposit or exemption request has been received.

**Transfer Applicant.** All campuses of Ohio University consider you to be a transfer applicant if you have completed more than 12 quarter hours or 9 semester hours at another institution after you graduated from high school. If you complete

college-level courses concurrently with high school you are considered a freshman applicant.

To be considered for transfer admission at the Athens campus of Ohio University, you must have obtained a minimum accumulative g.p.a. of 2.5 on a 4.0 scale in academic coursework from a regionally accredited institution. If you have completed less than 30 quarter or 20 semester hours of transferable coursework, or your coursework has been technical in nature, you must also meet freshman admission requirements. You must be in good standing with, and eligible to return to, your previous institution.

Admission as a transfer student does not guarantee admission to all majors, minors, or fields of concentration. Some colleges and programs at Ohio University have additional requirements for transfer student admission, including a g.p.a. higher than 2.5. Note that some programs may require a separate application that must be approved prior to official admission to the University. Please refer to the Colleges and Curricula section of this catalog for each college's or school's specific transfer admission requirements.

**Since most of our programs and procedures are set up to begin fall quarter, you are strongly encouraged to apply for that term.**

To apply, submit a completed application for admission form and the nonrefundable \$45 application fee. You must also arrange for official transcripts to be sent directly to Undergraduate Admissions from the registrar at each college or university you have attended. If you have completed less than 30 quarter or 20 semester hours of college-level work, an official high school transcript is also required.

ACT or SAT I results are not required of students who have been out of secondary school for more than one year, unless specifically requested by Undergraduate Admissions.

Space is available in University residence halls for transfer students. After you have been accepted for admission, you will receive a housing contract.

**International Applicant.** If you are on a non-immigrant visa, or will require one to study, you will be considered an international applicant. Admission requirements are the same as those

for U.S. citizens and permanent residents and include completion of a college-preparatory, secondary school program with excellent grades. Students wishing to transfer should have a strong grade point average in all college-level work completed.

To apply, you will need to submit an application for admission, a \$45 nonrefundable application fee, official secondary school records, ACT or SAT I examination results if you have been out of secondary school for less than one year, and official records of any university-level work completed. Financial documentation demonstrating you have sufficient funds to cover your educational and living expenses for a 12-month period must also be submitted before a visa certificate can be issued on your behalf. Contact Undergraduate Admissions for specific information regarding the above items.

If you are accepted for admission, you will be required to take an English placement test when you arrive on campus to determine if you will need additional English language instruction in the Ohio Program of Intensive English. If you need additional English language instruction, you may have to delay registering for regular classes until your English skills have improved enough to assure your success in the classroom.

When you are admitted, you will receive the appropriate materials for use in securing your student visa. Additional information, including the housing contract, will be forwarded separately after your admission.

International student application materials may be obtained from Undergraduate Admissions, Ohio University, Chubb Hall 120, Athens OH, USA 45701-2979, telephone 740.593.4110. Applications are also available on-line at <http://www.ohio.edu/admissions/>. Further information about services for international students is available from the Office of International Student and Faculty Services, Ohio University, Scott Quad 176, Athens OH, USA 45701-2979, USA, telephone 740.593.4330.

**High School Enrollment Options Applicant.** The State of Ohio, under Senate Bill 140 and House Bill 215, allows area students to enroll in college-level coursework prior to

graduation from high school under the Post-Secondary Enrollment Options Program (PSEOP). If you are a high school student and meet the criteria stated below, you may enroll in University classes concurrently with your high school enrollment to earn college credit or both high school and college credit. Students must live within commuting distance to Ohio University in specific counties, and must have completed at least 10 credit units as part of a college-preparatory curriculum in high school.

PSEOP offers students two options for enrolling: "Option A" allows high school students to enroll concurrently for college credit only, not high school credit. Students must rank in the top 40% of their high school class. Students enrolled in Option A are responsible for tuition, fees, and textbook charges, and may enroll in any quarter, including summer.

"Option B" allows students to enroll concurrently and receive both high school credit and college credit. Students must rank in the top 25% of their high school class to enroll in Option B. The Ohio Department of Education will pay tuition and textbook charges for those students enrolling in Option B. Option B students may enroll in any quarter except summer.

Additional information about PSEOP is available from Undergraduate Admissions, including the necessary application materials.

Please note that if you have taken college courses as a high school student under one of these options and plan to apply for admission to Ohio University as a full-time student, you will need to apply as a freshman applicant, not a transfer applicant, even though you have already earned college credit. Credit earned at Ohio University under these options will become part of your permanent record and will be calculated into your accumulative grade point average.

**Early Admission Applicant.** Under special circumstances, Ohio University will consider admitting you as a regular University student after your junior year of high school, but before your high-school graduation. Submit a completed application for admission, the nonrefundable \$45 application fee, your high school transcripts, ACT or SAT I scores (sent directly from the testing agency), a statement

explaining your reasons for wanting to enroll, and a recommendation from your high school attesting to your readiness to begin college-level studies. You will be required to earn your high school diploma or GED diploma by the beginning of your sophomore year in college to continue University enrollment. Additional information on this option is available from the director of admissions.

**Re-Enrolling Student.** If you have previously attended one of Ohio University's campuses but are not currently enrolled (excluding summer quarter) and wish to return as an undergraduate student, you are considered a re-enrolling student. Contact the Office of the Registrar for re-enrollment information at 740.593.4191.

If you have been dropped from the University, you will need to apply to the College in which you were last enrolled to be reinstated; if your records have been placed on hold, you will need to make arrangements to resolve the situation through the appropriate office before re-enrollment can be considered.

To receive information about registration, contact the registrar's office at 740.593.4191. If you have attended another college or university since you were last enrolled at Ohio University and wish to transfer credit, arrange to have a transcript sent to Undergraduate Admissions from each post-secondary institution you have attended during your absence from the University. Acceptance of such credit toward graduation requirements will be determined by the college in which you major.

**Relocating Student.** If you are currently attending one of Ohio University's regional campuses and wish to attend the Athens campus, you are considered a relocating student. Relocation is possible for any quarter, though you must have a g.p.a. of 2.0 or better to be eligible for relocation. Contact the Office of Student Services on your regional campus for additional information.

For on-campus housing, complete a Notice of Relocation to the Athens Campus form, relocating student form, available from the Residence Services office, or from the Student Services Office at your regional campus, and submit it to the Residence Services office on the Athens campus.

**Nondegree Applicant.** If you wish to carry a limited number of courses at the University during the regular academic year, and are not interested in earning a degree, you are considered a nondegree applicant. To apply, complete a non-degree application, available from Undergraduate Admissions. You must have a high school diploma or GED diploma to apply as a nondegree student. You will be required to submit copies of transcripts from high school, GED results, or previous post-secondary work. The application must be received at least two weeks before the first day of classes for the quarter for which you are applying. Transcripts must be received no later than one week before the first day of classes. Contact Undergraduate Admissions for eligibility requirements.

The University currently charges a \$20 nonrefundable application fee for nondegree applicants, although summer-only nondegree students are not charged. If you later wish to enter a degree program, you will need to reapply for admission.

If you wish to take courses in the summer only, contact the Office of Summer Sessions at 740.593.2583 or online at <http://www.ohio.edu/summer/> for application requirements and materials.

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## Options For Receiving Credit

Several methods of receiving Ohio University credit for work previously completed or for general knowledge and experience are available. For further information on any of the following, contact the University Examiner, Ohio University, Chubb Hall 120, Athens OH 45701-2979, telephone 740.593.4110.

**Credit for Advanced Placement (AP) and the College Level Examination Program (CLEP).** If you have taken examinations provided by the Advanced Placement (AP) program of the College Board and achieved a score of three or higher, you may be able to receive Ohio University credit for your efforts. Scores must be sent directly from the College Board to Undergraduate Admissions.

Ohio University also participates in the College Level Examination Program (CLEP) sponsored by the College Board. Subject to approval by the

appropriate department in each case, Ohio University will allow credit for satisfactory performance on the CLEP subject matter examinations, provided you take the examinations before you formally enroll in the University. Credit will not be awarded for CLEP exams taken after your enrollment in the University. The University does not award credit for scores achieved on the CLEP general examinations. Policies on credit for test scores are subject to change; check with Undergraduate Admissions for current information.

Detailed information about both the AP and CLEP programs is available from high school guidance offices or by contacting the College Board, Box 593, Princeton NJ 08540.

**International Baccalaureate (IB).** Ohio University will consider awarding up to 12 quarter hours of credit for each IB higher level examination graded 5 or above. Credit is not awarded for subsidiary examinations. An official transcript of results received is required for credit consideration. For further information, contact Undergraduate Admissions.

**Experiential Learning and Course Credit by Examination.** You also may be able to earn credit without attending formal classes through two programs offered through the University's Office of Lifelong Learning: Experiential Learning and Course Credit by Examination. Experiential Learning allows you to acquire credit for college-level experience gained through employment and community volunteer work by compiling a portfolio of learning that is reviewed by an appropriate University faculty member and assigned a credit value. Course Credit by Examination allows you to study or review a given subject on your own. You are tested on the subject within six months of enrollment. A letter grade is assigned and credit is awarded based on your performance on the examination. Further information on Experiential Learning and Course Credit by Examination is available from the Office of Independent and Distance Learning Programs, telephone 740.593.2910 or 800.444.2910 (See also the Office of Lifelong Learning section of this catalog.)

**Credit for Armed Forces Courses.** Some courses provided by the armed forces may earn college credit. *The Guide to the Evaluation of Educational Experience in the Armed Services*,

published by the American Council on Education, is used to determine what credit might be granted. Blanket credit is not granted for military service, nor is credit granted for the Military Occupation Specialty (MOS). Veterans who served after October 1, 1981, must submit official documentation for credit consideration: Army veterans must submit an AARTS transcript; Marine Corp and Navy veterans must submit a S.M.A.R.T. transcript; Coast Guard veterans must submit a Coast Guard transcript. For additional information, or for instructions for personnel who served before October 1, 1981, contact Undergraduate Admissions, 740.593.4110.

**Credit for Training Programs.** Some courses offered by business and professional organizations are considered the equivalent of college courses, and you may receive transfer credit, subject to department or school approval, by presenting transcripts or certificates of completion from the training program. The National Guide to Educational Credit for Training Programs, published by the American Council on Education, is used to determine what credit can be granted. Contact Undergraduate Admissions for further information.

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## Transferring Credit

All college-level credit earned with a grade of C- or higher at a regionally accredited institution is accepted as transfer credit at Ohio University. The manner in which this credit will apply to graduation requirements is up to the College in which you major. Remedial courses and English courses taught in non-Anglophone countries are not transferable. Credit is only awarded after admission to the University as a degree-seeking student and upon receipt of official transcripts.

Normally, courses in which you have earned a grade below C- are not acceptable for transfer. However, a course with a D grade will transfer if it meets two conditions: if the course was a specific prerequisite (as stated in the previous school's catalog) for a later course that you took in the *same department*, and if you earned a grade of C- or better in that later course. If you have coursework that meets these conditions, contact Undergraduate Admissions to arrange to receive credit. Grades of D will also transfer if you have completed an Associate of Arts

or an Associate of Science degree at a regionally accredited, Ohio post-secondary institution.

All grades for transfer credit are converted on your academic record to either a T grade symbol (if credit has been equated to a specific Ohio University course) or a U symbol (if credit has not been equated). The number of transferred quarter hours is recorded on your academic record, but the grades you earned are not recorded. As a result, if you are a transfer student, you enter Ohio University with no g.p.a. on your academic record. However, your overall g.p.a. earned at other institutions may still be considered part of the criteria for admission into certain programs.

Shortly after you have been accepted for admission as a transfer student, Undergraduate Admissions will send a tentative transfer credit evaluation report.

**Institutional Transfer.** The Ohio Board of Regents, following the directive of the Ohio General Assembly, developed a statewide policy to facilitate students' ability to transfer credits from one Ohio public college or university to another in order to avoid duplication of course requirements. Since independent colleges and universities in Ohio may or may not be participating in the transfer policy, students interested in transferring to independent institutions are encouraged to check with the college or university of their choice regarding transfer agreements.

**Transfer Module.** The Ohio Board of Regents' Transfer and Articulation Policy established the Transfer Module, which is a subset or entire set of a college or university's general education program. Transfer Module consists of 54 to 60 quarter hours (or 36 to 40 semester hours) of courses in the following areas: English, mathematics, arts and humanities, social and behavioral sciences, natural and physical sciences, and interdisciplinary study.

A Transfer Module completed at one college or university will automatically meet the requirements of the Transfer Module at another college or university once the student is admitted. Students may be required, however, to meet additional general education requirements at the

institution to which they transfer. For example, a student who completes the Transfer Module at Institution S (sending institution) and then transfers to Institution R (receiving institution) is said to have completed the Transfer Module portion of Institution R's general education program. Institution R, however, may require additional general education courses beyond the Transfer Module.

Since many degree programs require specific courses that may be taken as a part of the general education or Transfer Module program at an institution, students are encouraged to meet with an academic advisor at the institution to which they plan to transfer early in their academic career. For example, students who will be majoring in any of the majors in the College of Business and Administration at the receiving institution should take Economics 201, 202, and 203 (or equivalent course at another institution) rather than the Economics 200 course listed as a part of the Transfer Module. Because of specific major requirements such as these, early identification of a student's intended major is encouraged. Advisors at the institution to which a student wishes to transfer should be consulted regarding Transfer Module and general education courses and any specific program requirements that can be completed before transfer.

#### Conditions for Transfer Admission.

1. The policy encourages receiving institutions to give preferential consideration for admission to students who complete the Associate of Arts or Associate of Science degree with a cumulative grade point of 2.0 or better for all previous college level courses.
2. The policy encourages receiving institutions to give preferential treatment to students who have not earned an Associate of Arts or Associate of Science degree but have earned 60 semester hours or 90 quarter hours with a cumulative grade point of 2.0 or better for all previous college level courses.
3. The policy further encourages that students who have not earned an Associate of Arts or Associate of Science degree or who have not earned 60 semester hours or 90 semester hours with a cumulative grade point of 2.0 or better for all previous college level courses are

eligible for admission as transfer students on a competitive basis.

#### Acceptance of Transfer Credit.

1. Students who have completed the Associate of Arts or Associate of Science degree with a cumulative grade point average of 2.0 or better will receive transfer credit for all college level courses in which a grade of D or better has been earned.
2. Students who have not earned an Associate of Arts or Associate of Science degree will receive transfer credit for all college level courses in which a grade of C or better has been earned.

Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors, or fields of concentration at the institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as all other students. Furthermore, transfer student shall be accorded the same class standing and other privileges as all other students on the basis of the number of credits earned. All residency requirements must be successfully completed at the receiving institution prior to the granting of a degree.

Responsibilities of Students. In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution's major. Students are encouraged to seek further information regarding transfer from both their advisor and the college or university to which they plan to transfer.

Appeals Process. A student disagreeing with the application of transfer credit by the receiving institution shall be informed of the right to appeal the

decision and of the process for filing the appeal. Each institution shall make available to students the appeal process for that specific college or university. If a transfer student's appeal is denied by the institution after all appeal levels within the institution have been exhausted, the institution shall advise the student in writing of the availability and process of appeal to the state-level Articulation and Transfer Appeals Review Committee. The Appeals Review Committee shall review and recommend to institutions the resolutions of individual cases of appeal from transfer students who have exhausted all local appeal mechanism concerning applicability of transfer credits at receiving institutions.

Transfer Module Recommendations for Transferring from Ohio University. If you are planning to transfer from Ohio University to another institution, the following guidelines should be followed in selecting courses to fulfill the 54-60 quarter hours required by the transfer module:

- 1 A minimum of five hours of English composition by completing one of the following courses:  
English 151, 152, 153
- 2 A minimum of three hours of mathematics or quantitative skills from the following courses:  
Computer Science 230  
Math 11S, 118, 121, 122, 163A-8, 211, 250, 251, 263A-B-C-D, 266A-8
- 3 A minimum of nine hours selected from at least two of the following Arts and Humanities areas:  
African American Studies 110, 150, 210, 211, 250  
Art 110  
Art History 211, 212, 213, 214  
Classics and World Religions 181  
Classics in English 234  
Dance 170  
English 200, 206  
Film 201, 202, 203  
History 121, 122, 123  
Humanities 107, 108, 109, 117  
Interdisciplinary Arts 117, 118, 211, 212, 213, 270, 271, 272  
Music History and Literature 120, 125  
Philosophy 101, 130, 216, 240, 260

Theater 270, 271, 272

Women's Studies 100

- 4 A minimum of nine hours selected from at least two of the following Social and Behavioral Sciences areas:

African American Studies 101, 202

Anthropology 101, 202

Economics 103, 104

Geography 121, 131, 132, 201, 234, 241

History 101, 102, 103, 132, 133, 200, 201

Human and Consumer Sciences 160

International Studies 103, 113, 118, 121

Linguistics 275, 280

Political Science 101, 210, 230, 250, 270

Psychology 101

Sociology 101, 201

- 5 A minimum of nine hours of Natural and Physical Sciences, including at least one laboratory science course with at least one laboratory meeting each week in addition to lectures, from the following:

Anthropology 201

Astronomy 100, 100D, 140

Biological Sciences 100, 103, 130, 131, 170, 171, 172, 173, 201, 221, 222, 225, 275

Biology 101

Chemistry 121, 122, 123, 151, 152, 153

Geography 101

Geological Sciences 101, 120, 170, 211, 215, 221, 231

Human and Consumer Sciences-Food and Nutrition 128

Physical Science 100, 100D, 101, 101L, 105, 105L, 140

Physics 201, 202, 203, 251, 252, 253

Plant Biology 100, 100L, 102

- 6 Additional courses to fulfill the 54–60 hour requirement

We recommend that you work closely with the transfer coordinator at the institution to which you hope to transfer to ensure that the specific courses you select will fulfill the major and graduation requirements of the academic program you intend to pursue.

### Transferring Technical College Credit.

If you have completed an associate's degree from a Board of Regents–approved Ohio college, you will be able to transfer credit for all the general education coursework in which you earned a grade of C– or better. Most programs will also allow a limited amount of credit for technical courses to be applied as elective credit toward graduation requirements.

## Enrollment

### Medical Requirements

There are no specific medical requirements to fulfill before entering the University—for example, you are not required to have a physical examination. However, some Colleges have specific medical requirements for students pursuing certain majors.

If you are a newly enrolled international student or an international student returning after an absence of two or more years, you will need to take a tuberculosis skin test through the Student Health Service on campus.

The University requires full-time students to have major medical insurance and offers an affordable plan for students and their dependents. Information on the insurance plan is included with your registration materials.

## Application Deadlines

Although you may enroll for any quarter, we recommend that you enter fall quarter, if possible, because many course sequences begin in the fall.

### Freshmen

If you are a high school senior applying for fall quarter, we recommend that you apply for admission to Ohio University no later than December or January of your senior year, but you may apply anytime after completing your junior year. Applications for other terms are accepted up to one month before the quarter or term begins.

You should arrange to take the SAT I and/or the ACT by December of your senior year so that scores can be submitted with your application materials.

Currently, certain programs, including Honors Tutorial College, the School of Journalism, and the School of Visual

Communication have earlier deadlines. Contact Undergraduate Admissions or refer to the current *Application for Admission* for further details.

Some of Ohio University's more competitive and popular programs meet their enrollment targets and close admission before the published deadlines. The University reserves the right to close admission to any of its programs without advance notice.

### Freshman Application Deadlines.

	<i>Applications</i>	<i>Transcripts</i>
Fall	Feb 1	March 1
Winter	Dec 1	Dec 15
Spring	March 1	March 15
Summer	May 1	June 15

### Transfer

The application deadlines listed below are priority dates. Applications received after these dates will be reviewed on a space-available basis.

If you have applied by the stated application priority date and your transcripts are received after the transcript priority date, you will still receive consideration. Be sure to have your transcripts sent **directly** to Undergraduate Admissions by the registrar at each school you have attended.

### Transfer Application Priority Deadlines.

	<i>Applications</i>	<i>Transcripts</i>
Fall	May 15	June 15
Winter	Oct 15	Nov 1
Spring	Feb 15	March 1
Summer	May 1	May 15

### International Application Priority

**Deadlines.** International applicants should follow the deadlines noted above. We recommend that you submit all of your supporting materials, including transcripts, well before the application priority date to facilitate the review process, and to allow ample time to apply for a visa at a U.S. embassy or consulate if you are admitted.

### Campus Visits

The best way to learn about Ohio University is to visit our campus. You are encouraged to arrange a visit through Undergraduate Admissions, which sponsors information sessions and walking tours of the campus Monday through Friday and most Saturdays (except holidays—see the Academic Calendar section).

Tour and information session times are listed on the chart. **Reservations are required for campus visitation programs.** We ask that you make reservations for campus visits at least a week in advance for weekday visits and at least three weeks in advance for Saturday visits. Please be aware that the University observes several holidays throughout the year during which Undergraduate Admissions will be closed.

If you would like to speak with a faculty member or college representative in your field of interest, you may contact the department directly. Appropriate departmental contact information is available online at <http://www.ohio.edu/admissions/visit.htm> (These appointments are available Monday through Friday only.)

To arrange a visit, you may also contact Undergraduate Admissions at 740.593.4100 during office hours Monday through Friday, schedule a visit online, or take an interactive campus tour by visiting <http://www.ohio.edu/admissions/visit.htm>

**Visitors Center.** For help in finding your way around Ohio University and Athens, stop at the Ohio University Visitors Center at the corner of Richland Avenue and Shafer Street. Directions and maps, as well as information about the University and community are available through the Visitors Center.

## Campus visitation schedule

	9 a.m.	10 a.m.	11 a.m.	Noon	1 p.m.	2 p.m.	3 p.m.
Mon	IS	T	IS	T	IS	T	
Tue		T	IS	T	IS	T	
Wed		T	IS	T	IS	T	
Thu		T	IS	T	IS	T	
Fri		T	IS	T	IS	T	IS
Sat			IS	T			

IS—Information session    T—Campus tour

To schedule a visit, contact Undergraduate Admissions at 740-593-4100, or schedule online at <http://www.ohio.edu/admissions/visit.htm>



# Schedule of Fees

## Ohio Residency Guidelines

Since Ohio University assess your tuition costs based on your status as an Ohio resident or non-Ohio resident, the following general information is provided to help you determine your residency status. The complete policy on Ohio Residency is included for your reference in the appendix.

Additional information is available from the University Examiner in the Office of Undergraduate Admissions and is also online at [www.ohio.edu/admissions/residency.html](http://www.ohio.edu/admissions/residency.html)

**Residency reclassification is never retroactive. All appropriate documents must be submitted to the appropriate office prior to the last day to register for class for the term you wish reclassification.**

In general, a student must demonstrate that s/he meets all of the criteria in one of the following sections:

**C-1 Reclassification - If you are financially dependent upon a person living in Ohio**

The Ohio Board of Regents Guidelines state: "A student whose spouse, or a dependent student, at least one of whose parents or a legal guardian, has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of the student in an institution of higher education."

This classification is for a person who has been claimed by either a parent or legal guardian as a dependent on that person's Internal Revenue Service tax filing for the previous year and has subjected their income to Ohio Taxation or the spouse of a person who has lived in and paid taxes to Ohio for the previous 12 consecutive months. The person the student is dependent upon must meet the definition of being a resident of Ohio for all legal purposes.

**MUST PRESENT:** A notarized statement from spouse, parent or legal guardian specifying how long they have been a resident of Ohio.

Statement must include dependent student's name and social security number in the statement.

**C-2 Reclassification - If you are financially independent**

The Ohio Board of Regents Guidelines state: "A person who has been a resident of Ohio for all other legal purposes for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or

indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes."

This classification is for a person who has never been classified as a resident at Ohio University and would like to be reclassified as a resident. This is for a person who is claiming to be financially independent of anyone else unless they have a spouse who is also living in Ohio. A person must prove that they have maintained a physical presence and domicile in Ohio for the 12 months preceding the quarter they would like to be classified as a resident. The person must also prove they have transferred all items of registration to Ohio. The person must finally show that they have been financially self-sustaining on eligible Ohio income and have not received financial support from persons or entities outside of Ohio during the 12 months preceding the quarter they would like to be reclassified as a resident.

**MUST PRESENT:** Residency Petition, complete with supporting documents and notarized.

**C-3 Reclassification - If you are financially dependent upon a spouse or parent**

The Ohio Board of Regents Guidelines state: "A dependent child of a parent or legal guardian, or the spouse of a person, who as of the first day of a term of enrollment, has accepted full-time, self-sustaining employment and established domicile in the State of Ohio for reasons other than gaining the benefit of favorable tuition rates."

This classification is for a person who has been claimed for tax purposes in the previous year by a parent or legal guardian and that person has not

lived in Ohio for 12 months.

The spouse, parent, or legal guardian must have accepted and begun full-time employment and established a domicile in Ohio before the quarter begins in order for the student to qualify.

Note: Two part-time jobs or any combination cannot be used to constitute one full-time position. This residency reclassification is based upon one full-time employment position.

If you are currently enrolled and your spouse has not lived in Ohio for 12 months, you cannot apply for this reclassification. The spouse must begin employment before your initial term of enrollment.

Students who marry an Ohio resident after their initial enrollment apply under C-1 if the spouse has lived in Ohio for 12 months.

Employment must be verified every quarter under C-3.

An employment letter will be required each quarter verifying the spouse or parent is still employed with the employer for which they received C-3 residency until the spouse or parent has lived in Ohio for 12 consecutive months.

Students will be classified as non-residents for the quarter after they receive C-3 residency unless a new employment letter is received by published deadlines.

**MUST PRESENT:** Documentation of full-time employment and domicile shall include both of the following documents:

1. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent or spouse of the student is employed full-time in Ohio.  
Statement must include parent/spouse and student relationship, student's name and social security number in document.
2. A copy of the lease under which the parent or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent or spouse is the owner and occupant; or if the parent or spouse is not the lessee or owner of the residence in which he or she

has established domicile, a letter from the owner of the residence certifying that the parent or spouse resides at that residence.

### **E-1 Reclassification – If you are an employed part-time student**

The Ohio Board of Regents Guidelines state: "A person who is living and gainfully employed on a full-time or part-time self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes."

This residency exception is for a person who is residing in and is gainfully employed on a self-sustaining basis in Ohio and who is pursuing a part-time program of instruction. E-1 residency generally pertains to the individual who has resided in Ohio less than 12 consecutive months and has moved to Ohio for employment purposes. However, it may also include non-resident students who have lived in Ohio more than 12 months and are working to financially emancipate themselves from non-Ohio parents.

The employment must begin and be self-sustaining before the first day of the quarter a person seeks to qualify for E-1 residency. Other sources of income such as loans cannot be considered as income contributing to a student's self-sustaining status.

Students who have received E-1 classification do not automatically convert to regular resident status after living in Ohio for 12 months. They must then apply under C-2.

Note: Students must apply every quarter for E-1 classification.

**MUST PRESENT:** Residency Petition, complete with supporting documents and notarized. Must meet all requirements with the exception of living in Ohio for the previous 12 consecutive months.

### **E-2 Reclassification – If you or your parent or spouse are active duty military**

The Ohio Board of Regents Guidelines state: "A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile."

This residency exception is for a person who entered active duty military status as a resident of Ohio and is returning to Ohio after being discharged. This residency exception is also for a person who entered active duty military status as a resident of Ohio and their spouse or dependent child would like to return to Ohio and attend Ohio University while they are still on active duty military and not living in Ohio.

#### **MUST PRESENT:**

**Dependent student:** Copy of parent's current official military records showing Ohio as "Home of Record" (HOR) or copy of most recent "Leave and Earning Statement" (LES) showing income has been subjected to Ohio taxation. Must be accompanied with letter from parent listing student's name and social security number.

**Independent student:** Copy of current official military records showing Ohio as "Home of Record" (HOR) or copy of most recent "Leave and Earning Statement" (LES) showing income has been subjected to Ohio taxation.

### **E-3 Reclassification – If you or your parent or spouse are active duty military and stationed in Ohio**

The Ohio Board of Regents Guidelines state: "A person on active duty status in the United States military who is both stationed and residing in Ohio (and their dependents) shall be considered a resident of Ohio for tuition purposes."

This residency exception is for a person, or their spouse, or their dependent child, who is stationed in Ohio on active duty military.

#### **MUST PRESENT:**

**Dependent student:** Copy of parent's official military orders showing current active duty status in Ohio. Must be accompanied with letter from parent listing student's name and social security number.

**Independent student:** Copy of official military orders showing current active duty status in Ohio.

### **E-4 Reclassification – If your parents or spouse are Ohio residents and transferred outside of the United States**

The Ohio Board of Regents Guidelines state: "A person who is transferred by their employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and their dependents shall be considered residents of Ohio

for these purposes as long as Ohio remains the state of such person's domicile and as long as such person has fulfilled their tax liability to the State of Ohio for at least the tax year preceding enrollment."

This residency exception is for a person, or their spouse, or their dependent child, who would like to return to Ohio and attend Ohio University when they have not lived in Ohio for the previous 12 consecutive months.

#### **MUST PRESENT:**

**Independent student:** Statement on employer's letterhead indicating the employee was an Ohio resident at the time of being transferred. Copy of the employees' Ohio tax return for the previous tax year.

**Dependent student:** The documents listed above for an Independent student must also be accompanied with letter from parent listing student's name and social security number and dependent status.

### **E-5 Reclassification – If you or your parents are migrant workers**

The Ohio Board of Regents Guidelines state: "A person who has been employed as a migrant worker in the State of Ohio and their dependents shall be considered a resident for these purposes provided such a person has worked in Ohio at least four months during the three years preceding the proposed enrollment."

This residency exception is for a person, or their spouse, or their dependent child who would like to attend Ohio University and they have not lived in Ohio for the previous 12 consecutive months.

#### **MUST PRESENT:**

**Dependent student:** Statement(s) from employer(s) verifying the parent has worked in Ohio at least four months during each of the three previous years. Must be accompanied with letter from parent listing student's name and social security number.

**Independent student:** Statement(s) from employer(s) verifying the student has worked in Ohio at least four months during each of the three previous years.

### **E-6 Reclassification – If you or your parents or spouse are involved in community service**

The Ohio Board of Regents Guidelines state: "A person who was considered a resident under this rule at the time the person started a community service position as defined under

this rule, and his or her spouse and dependents, shall be considered residents of Ohio while in service and upon completion of service in the community service position."

This residency exception is for a person, or their spouse, or their dependent child who was a resident of Ohio and took a position working for: (A) VISTA, AmeriCorps, City Year, the Peace Corps, or any similar program as determined by the Ohio Board of Regents; or (B) an elected or appointed public official for a period of time not exceeding 24 consecutive months. The person now wishes to return to Ohio and be classified as a resident for tuition purposes.

#### **MUST PRESENT:**

**Independent student:** A sworn statement from the community service group or a signed statement on letterhead verifying Ohio home of record for the individual.

**Dependent student:** In addition to the above, a signed letter from the parent verifying the dependent status of the student or a copy of a marriage certificate.

#### **E-7 Reclassification – If you return to Ohio due to marital hardship**

The Ohio Board of Regents Guidelines state: "A person who returns to the state of Ohio due to marital hardship, takes or has taken legal steps to end a marriage, and reestablishes financial dependence upon a parent or legal guardian (receives greater than 50% of his or her support from the parent or legal guardian), and his or her dependents shall be considered residents of Ohio."

This residency exception is for a person or their dependent child who returns to Ohio and has legally separated from their spouse and is now provided with more than 50% of their support from a parent who is a bona fide Ohio resident.

#### **MUST PRESENT:**

1. Copy of court papers verifying the couple has taken legal steps to end the marriage
2. Proof of Ohio domicile. (one of the following)
  - a. Signed copy of rental agreement or lease
  - b. Copy of closing statement on the house you live in
  - c. If living with someone, a sworn statement from the owner of the

residence certifying that you reside at that residence and the date you began living there

3. A sworn affidavit from the parents stating all of the following:
  - a. The student's name and social security number
  - b. Whether or not they are providing more than 50% of the financial support for the student
  - c. Length of time they have lived in Ohio and subjected their income to Ohio taxation
  - d. Whether they are United States citizens, permanent resident aliens, or what their status is in the United States.

#### **E-8 Reclassification – If you or your parent or spouse serve in the Ohio National Guard**

The Ohio Board of Regents Guidelines state: "A person who is a member of the Ohio National Guard and who is domiciled in Ohio, and his or her spouse or dependents, shall be considered residents of Ohio while the person is in the Ohio National Guard."

This residency exception is for a person, or their spouse, or their dependent child, who is living in Ohio and is in the Ohio National Guard.

#### **MUST PRESENT:**

**Independent student:** A copy of enlistment papers or a letter from the base personnel officer verifying service in the Ohio National Guard.

**Dependent Student:** In addition to the above, a signed letter from the parent verifying the dependent status of the student or a copy of a marriage certificate.

### **Current Tuition and Fee Rates**

Current tuition and Fee Rates can be found at <http://www.finance.ohiou.edu/bursar/>

### **Registration Fees**

Instructions for paying fees are mailed approximately six weeks before the opening of classes each quarter. Fees can be paid by a check or money order made out to Ohio University. You can pay through the mail or in person at the cashier's office in Chubb Hall if you are enrolling on the Athens campus, or at the regional campus Office of Student Services if you are enrolling on one of the regional campuses.

Credit card payments are accepted at regional campuses for regional campus students only. Credit card payments can also be made using CASHnet SMARTPAY (<http://www.cashnetsmartpay.com/ohio/>). This is a service that allows you to pay your University charges on the Internet. A service charge based on the transaction amount will be assessed.

You must pay your fees by the stated deadlines or risk a \$100 late payment charge. Post-dated checks are not accepted, and checks issued to the University and not paid upon presentation to the bank will automatically cancel any receipts given and result in the assessment of penalties.

Fees for tuition include the instructional fee and the general fee. This figure excludes fees for special courses, such as art, aviation, education, human and consumer sciences, journalism, music, recreation and sport sciences, and visual communication, which are listed in the quarterly *Schedule of Classes*. Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary.

Full-time students with majors in the Russ College of Engineering and Technology, the College of Business, the College of Communication (excluding journalism majors), and the College of Arts and Sciences will be assessed a fee for computing and other types of technology (regardless of class schedule). The fee for the Russ College of Engineering and Technology is \$65 per quarter. The fee for the College of Business is \$65 per quarter. The fee for the College of Communication is \$40 per quarter. The fee for the College of Arts and Sciences is \$15 per quarter. Part time students will be assessed a prorated fee.

### Late Registration Fees

Unless your registration has been delayed by the University, you will be charged a fee for late registration beginning with the third calendar week of each quarter. The fee is \$40 the third week, \$60 the fourth week, \$80 the fifth week, and \$100 the sixth week.

### Monthly Payment Plan

Ohio University provides a monthly payment plan for students. This plan equalizes your academic year's fees into nine monthly payments. This plan is not a loan program, and there is no interest charge on payments. You must apply for enrollment by mid-June for the coming year, and you are charged a \$50 nonrefundable application fee. A \$25 late fee will be assessed for payments received after the due dates.

If you withdraw from classes, the refund procedure is based on the assumption that all fees for the quarter have been paid. The refundable amount will be adjusted to recognize any unpaid monthly payments for the current quarter. Contact the Office of the Bursar, Chubb Hall 010, telephone 740.593.4130, to obtain an application for the Monthly Payment Plan or online at <http://www.finance.ohiou.edu/bursar/>

### Quarterly Room and Board Fees (2003–2004)\*

\$1,200	Standard Double
1,229	w/air cond.
990	Triple
1,014	w/air cond.
1,121	Quad
1,148	w/air cond.
1,475	Single
1,510	w/air cond.
1,003	10-Meal Plan
1,162	14-Meal Plan
1,405	Super 14 Meal Plan
1,240	20-Meal Plan
1,583	Super 20 Meal Plan

\*2004–05 fees were not available at time of printing.

### Other Related Fees (2003–2004)\*

\$45	Admission application fee, Athens campus (nonrefundable)
20	Admission application fee, regional campus (nonrefundable)
20	Special student application fee (nonrefundable)
10	Reclassification fee from special student to regular student status (Athens campus only)
5	Change of class schedule after second week
5	Duplicate official forms, fee receipts, etc.
40	Late registration fee (plus \$20 per week after third week)
	<i>Application for degree</i>
50	Associate's
50	Bachelor's
50	Master's
50	Doctorate
5	Reapplication for degree
542	Health insurance, annual premium (2002-03 academic year)
738	International health insurance, annual premium (2002-03 academic year)
50	Monthly payment plan (nonrefundable)
70	Orientation and testing fee
	<i>Parking per quarter</i>
35	Commuter lot
110	Garage
55	On-campus lot

For current parking fine rates, please refer to the Parking Services Web site at: <http://www.facilities.ohiou.edu/parking/> or call Parking Services at 593.1917.

25	Returned check charge
5	Transcripts–Next Day Service
10	Transcripts Now–Same Day Service
10	ID card replacement
10	Phone reactivation fee
15	Diploma replacement

\*2004–05 fees were not available at time of printing.

## Refund of Fees

**University Refund Policy for Withdrawal.** Ohio University refunds fees or credits your account 30 days after the date of withdrawal, according to the following schedule:

- 1 If you officially withdraw from the University (cancellation of registration) before the first day of classes, you are entitled to a 100 percent refund of registration fees.
- 2 If you officially withdraw from the University during the first 15 calendar days of the quarter (see the academic calendar), you are entitled to an 80 percent refund if your registration fees were paid in full.
- 3 If you withdraw from the University after the first 15 calendar days of classes, you are not entitled to a refund of registration fees.

If you withdraw from the University before full payment of fees is made, you are considered indebted to the University for the amount determined according to the refund regulations. A hold will be placed on your records until your debt is paid.

**Refund Policy for Reducing Course Load.** If you drop credit hours before or during the first 15 calendar days of the quarter, you are entitled to receive a 100 percent refund of the reduction when such changes result in a reduction of fees. For example, if you are registered for 11 hours and drop a 5-hour course, you will receive 100 percent of the difference in tuition for dropping from full-time to part-time. However, if you have 15 hours and drop to 11 hours, it does not affect the tuition, because the standard tuition rate applies to a course load of 11 through 20 hours. Course load reductions made after the 15th calendar day of the quarter will result in no refund. Corrected registration that results in increased hours could increase tuition. Further information regarding the refund of fees can be obtained from the bursar's office.

## Withdrawal Policy for Financial Aid Recipients

**Title IV Funds.** You are a Title IV financial aid recipient if you receive Direct Loans (Subsidized, Unsubsidized, or PLUS), Perkins Loan, Federal Pell Grant, Federal SEOG, or Federal Stafford Loans (for College of Osteopathic Medicine Students). If you receive Title IV financial aid and withdraw from Ohio University, the amount of aid earned and unearned will be calculated using the Federal Return of Title IV Funds policy. This policy is a formula that measures the percentage of days enrolled during a quarter. The percentage is determined by dividing the number of days enrolled by the number of calendar days in the quarter, including weekends and holidays. Based on this percentage, Title IV financial aid will be prorated to reflect the amount of aid that was earned during the period of enrollment. The amount of aid that is earned will remain on your student account and the amount of aid that is unearned will be returned to the appropriate program. Once the attendance percentage reaches 60 percent, all Title IV financial aid is considered to be earned.

If it is determined that Title IV funds need to be returned, by Federal Law they will be returned in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Unsubsidized Direct Loans, Subsidized Direct Loans, Perkins Loans, Federal PLUS Loans, Federal Pell Grant, Federal SEOG, and Other Title IV assistance.

**State and Institutional Grants.** If you receive financial aid that consists of state or University grant funds, they are subject to the University Refund Policy. If you officially withdraw during the first 15 calendar days of the quarter, 80% of the grant funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the grant funds will remain on your student account.

**Undergraduate and Graduate Scholarships.** If you receive financial aid that consists of undergraduate or graduate scholarships, they are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100% of the scholarship funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the scholarship funds will remain on your student account.

**Unofficial Withdrawals.** If you stop attending the University and do not officially withdraw, it is considered to be an unofficial withdrawal and will be subject to the above Withdrawal Policies. The date of withdrawal will be the latest date based on a student's attendance at an academically-related event. If the last date of attendance is not known, the midpoint of the quarter will be used as the withdrawal date. If you never attend all of the courses you have registered for, you are considered to be an unofficial withdrawal. It is determined that you have not earned any financial aid. Therefore, all aid will be returned to the appropriate program.

A student is not eligible for a refund until all Federal Title IV programs and other grants and scholarships are reimbursed as required and all outstanding balances with the University have been cleared.

If you are receiving financial aid, a change in your enrollment status or your withdrawal from the University may result in your having to repay programs from which you received financial assistance. In addition, you may owe fees to the University after funds are returned to the financial aid programs.

Further information on this process is included under "Withdrawal Policy for Financial Aid Recipients" in the Financial Aid Information section of this catalog.

## Financial Aid

**The purpose of financial aid and scholarships is to supplement your and your family's contributions toward the cost of education, as well as to recognize academic achievement and special talents. Ohio University offers a variety of scholarship, grant, loan, and part-time employment programs to assist you in financing your education. The Office of Student Financial Aid and Scholarships (OSFAS) is responsible for the processing and awarding of all types of federal, state, private, and institutional (University) funds to students.**

### **Office of Student Financial Aid and Scholarships**

**Ohio University**

**020 Chubb Hall**

**Athens OH 45701-2979**

**Telephone 740.593.4141 (M-F 8:30 a.m.–noon, 12:30–4:30 p.m.)**

**Fax 740.593.4140**

**E-mail [financial.aid@ohio.edu](mailto:financial.aid@ohio.edu)**

**Web <http://www.ohio.edu/financialaid/>**

**All information in this section is subject to change due to congressional action or changes in federal regulations.**

### **Types of Financial Assistance**

All types of financial assistance fall within two major categories—gift aid and self-help aid. These aid programs may be awarded on the basis of merit, financial need, or a combination of both. Scholarships are considered merit awards; other types of aid are based on an analysis of your and your family's ability to contribute to the cost of education. Scholarships and grants do not have to be repaid; loans, however, must be repaid by the borrower.

#### **Gift Aid**

**Scholarships.** Ohio University has an extensive undergraduate scholarship program available to freshmen, and upperclass (sophomore, junior, and senior). Scholarships are awarded on a competitive basis for academic achievement and special talent, as well as on the basis of geographical residence and area of study. Financial need is not always a prerequisite.

**Grants.** Grants are considered gift aid that you do not have to repay. Most grant aid is awarded on some type of need-based eligibility criteria. The sources may vary from state, federal, private, and institutional funds, so you are encouraged to actively seek out all sources.

#### **Self-Help Aid**

**Loans.** Student loans play a significant role in financing post-secondary education. Ohio University participates in the William D. Ford Federal Direct Student Loan Program, which allows students to borrow directly from the federal government through Ohio University. These educational loans have favorable terms and conditions. You should view borrowing as an investment in your future. However, loans represent debts that must be repaid, and failure to repay will result in severe penalties.

**Employment.** Ohio University has a variety of student employment (on- and off-campus) programs available to provide self-help aid if you wish to work on a part-time basis while pursuing your education. You should attempt to establish a reasonable balance between your academic efforts and your work schedule. Consequently, you may not work more than 20 hours a week when classes are in session. Ohio University is an equal opportunity and affirmative action employer. The Student Employment Office (SEO), part of the OSFAS, reaffirms the University's commitment to the policy that no employer may discriminate on the basis of race, sex, creed, ethnic origin, or handicap in employment practices. There will be no discrimination because of age, except as governed by state and federal laws and guidelines. (See "Affirmative Action" in the Services for Students section of this catalog.)

### **Application Procedure**

There are five types of federal need-based financial aid: Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal Work Study, Federal Perkins Loan, and William D. Ford Federal Direct Student Loan. Other types of financial aid, such as the Ohio University Grant, Ohio University Access Grant, and Ohio Instructional Grant, are also available. To apply for all financial aid programs, complete the U.S. Department of Education's Free Application for Federal Student Aid (FAFSA) on the Web at <http://www.fafsa.ed.gov/> after January 1. You and your parent should also get a Personal Identification Number (PIN) from the Department of Education to electronically sign your FAFSA on the Web. You and your parent can visit <http://pin.ed.gov/> to get your PIN before filing the FAFSA. You can also obtain a FAFSA from any high school, college, or university after January 1. However, we recommend filing FAFSA on the Web to reduce errors and speed processing time. **We recommend that you complete your FAFSA on the Web by February 1 in order for your FAFSA results to be received by the University before the March 15 priority deadline.**

Three of the five need-based aid programs (Federal Work Study, Federal Perkins Loan, and the Federal Supplemental Educational Opportunity Grant) are called campus-based aid (CBA). Campus-based aid is awarded differently from the Federal Pell Grant and the Federal Direct Student Loan in that CBA funds are sent directly to the University from the federal government. The funds are then awarded by the aid administrator using federal eligibility criteria. Funding for these programs and for institutional grants is limited; therefore, priority is given to those students who demonstrate the highest financial need and who meet Ohio University's priority deadline of March 15.

The CBA priority deadline (i.e., the date by which the FAFSA results must be on file at Ohio University) is March 15. Even if you do not meet this deadline or the eligibility criteria, we recommend that you complete the application process for other types of assistance that do not have a priority deadline, such as the Federal Pell Grant or the Federal Direct Student Loan.

Federal regulations and institutional policies are subject to change without prior notice. The OSFAS will attempt to keep you updated through various media on campus, the OSFAS Web site, student e-mail, and written notices. To avoid costly delays, it is vital to update your permanent and local addresses with the Registrar's Office or through the OSFAS and to regularly access your OAK student e-mail account.

#### **Need-Based Financial Aid**

**Ohio Instructional Grant (OIG).** If you are an Ohio resident, or, if you are a dependent student and both you and your parents are Ohio residents, you are encouraged to apply for the OIG by completing the FAFSA. October 1 is usually the deadline for applying for the OIG, although you should apply as early as possible—ideally by February 1—to meet priority deadlines. If you are eligible, you will receive a notice of eligibility directly from the Ohio Board of Regents. You must meet all Ohio University eligibility criteria before funds are disbursed to your account.

**Federal Pell Grant.** After you complete the FAFSA, you will receive a Student Aid Report (SAR) from the U.S. Department of Education's Central Processor. You may receive an e-mail allowing you to view your SAR online if you provide an accurate e-mail address when using FAFSA on the Web. It will tell you if you qualify for a Federal Pell Grant. Retain the SAR for your records. If you must correct the data on your SAR, enter the corrections on the SAR and forward the corrected SAR to the OSFAS, which will send the corrections electronically to the Central Processor. If your SAR is only available to you online you may print it, make corrections, and forward it to the OSFAS. You will receive a corrected SAR within 4-6 weeks. Retain the corrected SAR for your records.

**William D. Ford Federal Direct Student Loan (FDSL).** You will be notified about your eligibility for a FDSL on an award letter. You must complete the Electronic Master Promissory Note (EMPN) and complete entrance counseling (if you are a first-time borrower) or complete online Web confirmation to accept your loan (if you have a MPN on file from previous years) before the loan process can be completed. Once the process is completed, loan proceeds will be credited to your account at the opening of each term. You must also complete exit counseling prior to completion of your program or after you have dropped below half time enrollment.

#### **Merit-Based Financial Aid**

**Freshman Scholarships.** There is no application for freshman scholarships at Ohio University. Simply complete the Application for Admission and Scholarships available from the Office of Undergraduate Admissions or apply online at <http://www.ohio.edu/>. To be considered a priority applicant, you must be accepted for admission by February 1. Eligible applicants are considered for all scholarships.

If you wish to be considered for certain endowed scholarships, you must also complete the Free Application for Federal Student Aid (FAFSA) and have the results on file by March 15. If you plan to enter the College Of Fine Arts, you also will be evaluated by interview and portfolio or audition.

If you receive a scholarship, you are required to enroll for and earn a minimum of 16 credit hours a quarter during your freshman year.

**Upperclass and Transfer Student Scholarships (Undergraduate).** You can apply for Deans Scholarships and other upperclass scholarships by completing Ohio University's online scholarship application. The eligibility requirements for upperclass scholarships include: an accumulative g.p.a. of 3.4 or above by the end of winter quarter of the application year; at least 32 credit hours earned during the fall and winter quarters of the application year; and at least 48 credit hours earned by the end of spring quarter. You also must have completed at least two quarters at Ohio University.

To apply for an upperclass scholarship, complete the electronic scholarship application through the OSFAS Web site. Complete instructions are available at OSFAS and in the Computer Services labs. The application period opens on the first day of winter quarter, and the application deadline is the last day of winter quarter final exams.

All transfer students admitted by May 15 will automatically be considered for scholarships awarded by the Office of Admissions based on the transcripts submitted for review. No separate application is required.

If you receive a scholarship, you are required to enroll for and earn a minimum of 16 hours per quarter.

#### **Regional Campus Scholarships.**

Upperclass students must complete their applications online using the online scholarship application on the OSFAS

website. The criteria are somewhat different from those for the Athens campus, and you should check with the individual regional campus for application deadlines.

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#### **College Cost (Budget)**

Each year, the Ohio University Board of Trustees determines the fixed costs (tuition and fees, out-of-state surcharge, and room and board rates on campus) for you. Variable indirect costs (books and supplies, travel, and personal and miscellaneous) are estimated by the OSFAS to arrive at a reasonable estimate of the total cost for the academic year (three quarters). If you attend all four quarters (summer session constitutes the first quarter for financial aid), an adjustment is made to include the additional costs. Estimates are based on the Consumer Price Index and periodic local surveys on housing and food costs. The total fixed and variable costs make up your total cost (budget) for the academic year. Final annual budgets are available from the OSFAS after July 1 of each award year.

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#### **Determining Need**

The Federal Methodology (FM) is the calculation used by the federal government to measure your eligibility for assistance. Some federal aid programs require that you show need after the income and (in some cases) assets of your family, as indicated on the FAFSA, have been analyzed. The OSFAS uses the need analysis information from the FAFSA to determine the amount you and your parents are expected to contribute toward your education. Consideration is given to your and your parents' adjusted gross income, assets, taxes paid, number of dependents, number attending college, and other factors as appropriate.

The FM performs a separate analysis of income when (a) your parents' adjusted gross income is less than \$50,000 a year and your parents were eligible to file a 1040A or 1040EZ tax form, or (b) your parents do not file a tax form with the IRS. Special circumstances such as divorce, separation, unemployment, or death in the family should be discussed with a financial aid administrator to determine if adjustments should



be made to the FM calculation. The combination of your contribution and your parents' contribution results in the Expected Family Contribution (EFC). This value can be found on your Student Aid Report.

If you are independent, you (and your spouse, if applicable) are expected to assist in meeting your educational costs. Your expected contribution is calculated from the previous year's earnings, untaxed income, and a percentage of personal savings and assets.

The following formula is used for calculating financial need:

$$\begin{array}{r} \text{Cost of Education (Budget)} \\ - \text{Minus Expected Family} \\ \text{Contribution} \end{array}$$

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**= Calculated Financial Need**

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### Eligibility Requirements

To receive Title IV federal aid (Federal Pell Grant, Federal Direct Student Loan, Federal Work Study, Federal Supplemental Educational Opportunity Grant, or Federal Perkins Loan), you must:

- 1 Be a U.S. citizen, a national or permanent resident of the U.S., or be in the U.S. for other than a temporary purpose. (If you are a citizen of the Marshall Islands, the Federated States of Micronesia, or Palau, see a financial aid administrator.) If you are a permanent resident, you may be required to provide documentation before being awarded aid.
- 2 Comply with U.S. Selective Service registration requirements.
- 3 Be enrolled or accepted for enrollment in a degree-granting program. Certificate programs or preparatory coursework cases should be discussed with a financial aid administrator.
- 4 Be making satisfactory academic progress as defined by Ohio University and the OSFAS. (See Satisfactory Academic Progress Standards.)
- 5 Not be in default on a Federal Perkins Loan, a Federal Educational Family Loan (FFEL), Federal Direct Student Loan, or Federal Supplemental Loan for Undergraduate Students (SLS), from any school, agency, or lender, or

owe a repayment on any Title IV funds. (Parents also must not be in default if applying for a PLUS loan.)

- 6 Have a valid Social Security number.

Some types of financial aid (e.g., Federal Pell Grant, Federal SEOG, OUG, OUAG, and OIG) are not available if you have already earned a bachelor's degree.

### External Students

Students pursuing external correspondence studies through Ohio University are eligible to be considered for the Federal Pell Grant and Federal Direct Student Loans once the results of the FAFSA have been received by the OSFAS. The amount of any Federal Pell Grant award is determined by the tuition and fee cost for the external courses plus a book allowance, the number of credit hours the student is taking, and the estimated family contribution (EFC) from the FAFSA results. Federal Direct Student Loan (FDSL) eligibility is determined by the tuition, fees, and book cost not covered by the Federal Pell Grant, the number of credit hours the student is taking (a student must be at least half-time to qualify for the FDSL), and the EFC from the FAFSA results. The Federal Pell Grant is disbursed in two disbursements. The first disbursement (half of the annual award) is disbursed once the OSFAS has received documentation from the Degree Services Office of Independent and Distance Learning Programs that 25 percent of the coursework has been completed; the second disbursement (half of the annual award) is disbursed once the OSFAS has received documentation from the Degree Services Office of Independent and Distance Learning Programs that 75 percent of the coursework has been completed. The FDSL is disbursed in two disbursements, also. The first disbursement (half of the annual award) is disbursed once coursework has begun. The second disbursement (half of the annual award) is made six months after coursework has begun, provided that the OSFAS has received documentation from the Degree Services Office of Independent and Distance Learning Programs that 50 percent of the coursework has been completed. Students pursuing external correspondence studies need to work with their assigned financial aid

counselor for additional information regarding the timeframe for disbursement of their financial aid. The cycle for correspondence coursework runs from July to June; and all financial aid for the award year must be disbursed by June 20.

Students pursuing external correspondence studies must also meet Satisfactory Academic Progress (SAP) Standards to remain eligible for financial aid. SAP Standards are calculated differently for external correspondence studies than they are for traditional coursework. For details of external SAP policies, please contact the Office of Student Financial Aid and Scholarships.

### Award Package

After the FAFSA need analysis electronic results and other requested documents have been received, reviewed for accuracy, and verified (if applicable), an award package is offered to all eligible applicants. The award package can be a combination of merit scholarships; institutional, state, and federal grants; employment; and loan assistance. Not all students receive all types of financial aid, but in general the OSFAS attempts to balance gift aid (grants and scholarships) with self-help aid (employment and loans) within the limits of available funds and the eligibility and need of the applicants. If you meet the March 15 priority deadline, you may receive a more attractive package than if you apply later.

### Award Letters

Notification of specific award offers will be sent to eligible applicants because all eligible applicants qualify for some form of aid. Award letters will be sent by U.S. mail to your permanent or local address or will be made available online via the Office of Student Financial Aid and Scholarships Web page. If you are adjusting or declining any of the awards, you must return the award letter indicating the changes to the OSFAS. All awards are subject to revision due to changes in federal allocations, student eligibility (EFC), clerical errors, failure to provide requested documents, or other circumstances beyond our control.



## Award Disbursements

Federal aid recipients must be officially enrolled in a degree-granting program to receive any type of financial assistance. All requested documents (e.g., income tax returns and W-2's) used in verifying the data provided on the FAFSA must be received by the OSFAS before financial aid can be disbursed. Disbursement dates and procedures will vary depending on the type of awards offered. Specific dates and information regarding the disbursement of financial aid are listed in each quarter's *Schedule of Classes*. In general, financial aid awards will be credited to your account each quarter, and total financial aid credits greater than your University charges will be mailed to your local address. Refunds (overages) from your student account are mailed on the first day of classes each term and, thereafter, on a weekly basis.

All FDSL borrowers must complete exit counseling upon completion of 150 undergraduate hours toward a bachelor's degree or 45 hours toward an associate's degree. Aid may be delayed until the OSFAS has evidence that you have completed exit counseling.

Federal Work Study awards are not credited to your account because these awards must be earned before being paid. You will be paid by check or direct deposit every two weeks.

Please note the payment due dates in the billing statement from the Bursar's Office. (See the *Schedule of Classes* each quarter for specific disbursement dates.) If you will be away from campus in a student teaching program, co-op, or study abroad, contact the OSFAS well in advance to discuss your eligibility and arrange for disbursement of your financial aid.

## Withdrawal Policy for Financial Aid Recipients

### Title IV Funds

You are a Title IV financial aid recipient if you receive Direct Loans (Subsidized, Unsubsidized, or PLUS), Perkins Loan, Federal Pell Grant, Federal SEOG, or Federal Stafford Loans (for College of Osteopathic Medicine Students). If you receive Title IV financial aid and withdraw from Ohio University, the amount of aid earned and unearned will be calculated using the Federal

Return of Title IV Funds policy. This policy is a formula that measures the percentage of days enrolled during a quarter. The percentage is determined by dividing the number of days enrolled by the number of calendar days in the quarter, including weekends and holidays. Based on this percentage, Title IV financial aid will be prorated to reflect the amount of aid that was earned during the period of enrollment. The amount of aid that is earned will remain on your student account and the amount of aid that is unearned will be returned to the appropriate program.

If it is determined that Title IV funds need to be returned, by Federal Law they will be returned in the following order: Unsubsidized Federal Stafford Loans, Subsidized Federal Stafford Loans, Unsubsidized Direct Loans, Subsidized Direct Loans, Federal Perkins Loans, Federal PLUS Loans, Federal Pell Grant, Federal SEOG, Other Title IV assistance.

### State and Institutional Grants

If you receive financial aid that consists of state or University grant funds, they are subject to the University Refund Policy. If you officially withdraw during the first 15 calendar days of the quarter, 80% of the grant funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the grant funds will remain on your student account.

### Undergraduate and Graduate Scholarships

If you receive financial aid that consists of undergraduate or graduate scholarships, they are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100% of the scholarship funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the scholarship funds will remain on your student account.

### College of Osteopathic Medicine Loans and Scholarships

If you receive financial aid that consists of College of Osteopathic Medicine Scholarships, Scholarships for Disadvantaged Students, Exceptional Financial Need (EFN) or Financial Aid for Disadvantaged Health Profession Students (FADHPS), Loans for Disadvantaged Students, Primary Care Loans or other non Title IV aid, you are subject to a Special University Policy. If you officially withdraw during the first 15 calendar days of the quarter, 100%

of the financial aid funds will be returned to the appropriate program. After the first 15 calendar days of the quarter, 100% of the financial aid funds will remain on your student account.

### Unofficial Withdrawals

If you stop attending the University and do not officially withdraw, it is considered to be an unofficial withdrawal and will be subject to the above Withdrawal Policies. The date of withdrawal will be the latest date based on a student's attendance at an academically-related event. If the last date of attendance is not known, the midpoint of the quarter will be used as the withdrawal date. If you never attend all of the courses you have registered for, you are considered to be an unofficial withdrawal. It is determined that you have not earned any financial aid. Therefore, all aid will be returned to the appropriate program.

If you are receiving financial aid, a change in your enrollment status or your withdrawal from the University may result in your having to repay programs from which you received financial assistance. In addition, you may owe fees to the University after funds are returned to the financial aid programs.

A student is not eligible for a refund until all Federal Title IV programs and other grants and scholarships are reimbursed as required and all outstanding balances with the University have been cleared.

## Satisfactory Academic Progress (SAP) Standards

Federal regulations require that all financial aid applicants meet Ohio University's satisfactory academic progress standards: (1) minimum credit hours earned for the appropriate enrollment status (full time, three-quarter time, half time, or less than half time); (2) maximum time frame during which a degree or certificate must be granted; and (3) minimum 2.0 accumulative g.p.a

Minimum credit hour standards require you to earn a minimum number of hours based on your enrollment status. As an undergraduate student, you are required to earn 12 hours if you are enrolled full time; 9 hours if you are enrolled three quarter time; 6 hours

if you are enrolled half time; and all hours attempted if you are enrolled less than half time. Maximum time-frame (MTF) standards are determined by your enrollment status. Full time enrollment (12 hours or more) is equal to 1 MTF quarter. Three-quarter time enrollment (9 to 11 hours) is equal to .75 MTF quarter. Half time enrollment (6 to 8 hours) is equal to .5 MTF quarter. Less than half time enrollment is prorated accordingly. While seeking a Bachelor's Degree, you are eligible to receive any aid for which you qualify up to 18 MTF quarters. Once your MTF total reaches 18, you are no longer eligible to receive Title IV and selected other types of financial assistance regardless of periods during which you received no financial aid. If you are seeking an Associate's Degree, you are eligible to receive any aid for which you qualify up to 9 MTF quarters. Once your MTF total reaches 9, you are no longer eligible to receive Title IV and selected other types of financial assistance, regardless of periods during which you received no financial aid.

If you are a first-time federal aid applicant, you must earn a minimum 2.0 accumulative g.p.a. by the end of your second academic year of enrollment. If you are a continuing aid applicant, you must maintain a minimum 2.0 g.p.a. If you are a transfer student, hours accepted by Ohio University will be included as part of the maximum time frame toward the completion of a degree or certificate and as part of the minimum credit hour component of SAP. If you are re-enrolling, your prior Ohio University hours are considered in determining satisfactory academic progress. If you attend summer sessions, you will have the time frame, hours attempted, and g.p.a. counted for that quarter. In the event of repeated courses, only the final hours count toward the completion of a degree or certificate, but courses count toward both the minimum credit hour component and the maximum time frame component of SAP each time they are taken. Proper withdrawal from classes prior to the 14th day of enrollment will not affect the fulfillment of the requirements, but attempted hours after the 14th day of enrollment will be counted.

You will be notified annually if your SAP status is other than satisfactory after spring quarter grades are

recorded. If you are placed on warning status, you are considered on probation for financial aid purposes for the following academic year. During this probationary period you remain eligible to receive any financial aid for which you qualify. Your SAP status is reviewed again in the next annual review, which takes place after spring quarter. Students in warning status will not have their aid packaged for the following year until they are found to be in "satisfactory" SAP status during the annual review in June. If you still do not meet SAP standards when you are reviewed again, you are placed on unsatisfactory status and are not eligible to receive federal financial aid for that academic year. You may appeal the decision if your failure to meet SAP criteria was due to mitigating circumstances. Appeal forms are available on the OSFAS webpage and must be submitted no later than the 21st day of the quarter in which reinstatement of aid is sought.

If you are placed on warning status and decide to attend summer sessions, you should be prepared to do so at your own expense. Summer classes will have been in session for one to two weeks before the SAP annual review; therefore, your SAP status may become unsatisfactory for the summer term and you would be ineligible for financial aid for that session.

#### **Eligibility and Renewal Criteria for Scholarships**

If you receive scholarship aid, you must meet the following requirements before you can be considered for renewal (if your scholarship is renewable) or be considered an eligible applicant for nonrenewable scholarships:

**Hours Requirement.** If you receive scholarship aid while attending the Athens campus, you must earn at least 16 credit hours for each quarter during the academic year for which you receive funds. Students with disabilities or those experiencing extenuating circumstances who are therefore unable to carry the 16-hour course load should contact the associate director for scholarships to submit an appeal. If you attend a regional campus and receive a regional campus scholarship, you must earn at least 12 credit hours for each quarter during the academic year for which you receive the award.

**G.P.A. and Hour Requirements for Renewable Scholarships.** To renew the

Presidential Scholar, University Scholar, Founders Award, Valedictorian Award, Templeton Scholars, and Thurgood Marshall Scholarships, you must have an accumulative minimum g.p.a. of 3.3 at the end of the spring quarter of the award year. You must earn 48 hours during the award year.

National Merit Scholarships and outside agency scholarships have different g.p.a. requirements, set by the National Merit Corporation and outside agencies respectively. Academic requirements for regional campus scholarships vary. Contact the Office of Student Services at your campus for further information.

### **Descriptions of Available Aid**

#### **Gift Aid—Scholarships**

Below is a listing of some of the scholarships offered at Ohio University. A complete listing of all scholarships is available on the OSFAS Web site.

**Presidential Scholars.** These scholarships, valued at the cost of in-state tuition and fees, are awarded to incoming first-year students. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. All freshmen with an ACT of 32 or higher or an SAT of 1400 or higher who graduated in the top 20 percent of their class will receive this award. To renew the award, recipients must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

**University Scholars.** These scholarships, valued at the cost of in-state tuition and fees, are awarded to incoming first-year students. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. All freshmen with an ACT of 30 or 31, or an SAT between 1320-1390 who are projected to be valedictorian of their class will receive this award. To renew the award, recipients must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

**Founders Awards.** These scholarships, valued at \$3,500 annually, are awarded to incoming first-year students. The awards are renewable for three

additional years for a total of 12 quarters of undergraduate study on the Athens campus. All freshmen with an ACT of 30 or 31, or an SAT between 1320-1390 who graduate in the top 20 percent of their class and are not the Valedictorian will receive this award. To renew the award, recipients must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

**Valedictorian Awards.** These scholarships, valued at \$1,000 annually, are awarded to incoming first-year students. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. All freshmen with an ACT of 29 or less or an SAT of 1310 or less who are projected to be valedictorian of their class will receive this award. To renew the award, recipients must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

**Deans Scholarships.** These scholarships are one-year awards, valued at \$1,250 to \$2,000, for upperclass students and transfer students who have earned more than 48 credit hours. Selection is based on undergraduate enrollment, hours earned, and accumulative g.p.a. You must reapply and compete annually for renewal. To be considered, you must have a 3.4 accumulative g.p.a. after winter quarter, have earned 32 hours during fall and winter quarters, and be projected to earn 48 credit hours for the year. Recipients must carry at least 16 hours each quarter to receive the award.

**Fine Arts Talent Awards.** These scholarships, with varying award amounts, are awarded to students in the College of Fine Arts based on academic test scores, class rank, and talent. The College of Fine Arts places particular emphasis on talent through an audition or portfolio review for applicants. To renew the award, recipients must maintain a 3.0 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award.

**Templeton Scholar Awards.** These scholarships are valued at the cost of in-state tuition and fees, room, board, and a book allowance and are awarded to academically talented incoming first-

year students from underrepresented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 3.3 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the scholarship, the award includes an academic success program.

**King/Chavez/Parks Awards.** These awards, with varying award amounts, are awarded to academically talented incoming first-year students from underrepresented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 2.75 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the award, students participate in an academic success program.

**OU Incentive Awards.** These awards, with varying amounts, are awarded to academically talented incoming first-year students from underrepresented groups. The awards are renewable for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. To renew the award, recipients must maintain a 2.50 accumulative g.p.a. and earn 48 credit hours a year. Recipients must carry at least 16 hours each quarter to receive the award. In addition to the award, students participate in an academic success program.

**Cutler Scholars Program.** This endowed undergraduate scholarship program provides tuition, fees, and room and board for the academic year, as well as funds for a structured summer internship or related experience. Students do not apply but are nominated by their high school or an Ohio University alumni chapter. Students selected for the program are evaluated against rigorous standards and must excel both in and out of the classroom. Awards are limited to students from certain locations or high schools, or to those in specific fields of study. These awards are offered to first year students and are available for three additional years for a total of 12 quarters of undergraduate study on the Athens campus. Recipients must carry at least 16 hours each quarter to receive

the award. Contact the executive director of the Cutler Scholars Program, Trisolini Gallery 210, Ohio University, Athens OH 45701-2979; telephone 740.593.4266.

**Corporate Scholarships.** Available to students majoring in specific academic areas (engineering, business, sciences) on the basis of high academic achievement. Eligibility requirements normally include high academic achievement and demonstrated financial need, and you must reapply annually for renewal. These awards range from \$300 to \$2,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

**Endowed Scholarships.** Available to students with high academic achievement and/or demonstrated financial need, these scholarships are made available from contributions of alumni and friends of Ohio University and are usually restricted by geographic location, major, or other special criteria. Awards range from \$150 to \$3,000 a year. Recipients must carry at least 16 hours each quarter to receive the award.

**National Merit Scholarships.** These scholarships are awarded to National Merit finalists who indicate Ohio University as their first-choice institution. National Merit Scholarships are renewable for three additional years of undergraduate study with awards ranging in value from \$750 to \$2,000, depending on financial need.

**Reserve Officers' Training Corps Scholarships.** Scholarships ranging from one to four years are available on a competitive basis for qualified students participating in the Air Force (Aerospace Studies) or Army (Military Science) ROTC programs. These scholarships pay costs of tuition, lab fees, and a flat rate for books. In addition, you receive a subsistence allowance at the rate of up to \$400 a month for the period the scholarship is in effect. Contact the Department of Aerospace Studies or the Department of Military Science.

#### **Gift Aid—Grants**

**Federal Pell Grant.** The Federal Pell Grant is a quasi entitlement program from the federal government, which means that all eligible undergraduate aid applicants who have not received a bachelor's degree will receive funds based on their expected family contribution, enrollment status (full time, three quarter time, half time,

or less than half time), and the cost of education. Upon submission of a FAFSA, you will receive a Student Aid Report (SAR) indicating the Expected Family Contribution (EFC). For 2004-2005, awards range from a minimum of \$400 to a maximum of \$4,050 (subject to change according to congressional appropriations). The Federal Pell Grant serves as the foundation upon which all other aid may be added, but ineligibility does not automatically exclude you from all other types of financial aid. The Federal Pell Grant is available only for three quarters for full-time status per academic year. If you attend summer quarter and are Pell eligible, you must receive one-third of your eligible portion during summer quarter. If you attend summer at less than full-time, you may receive a portion of your award for summer and another portion spring quarter, based on your spring enrollment.

**Federal Supplemental Educational Opportunity Grant (SEOG).** The Federal SEOG is awarded to undergraduate students on the basis of exceptional financial need beyond the Federal Pell Grant. These funds are awarded directly by the University and are limited to the funds allocated to the University by the U.S. Department of Education. Ohio University must have received the results of the FAFSA or Renewal Application by the March 15 priority deadline. The award is restricted to Federal Pell Grant recipients. The amount awarded to eligible applicants varies each year depending on the need of the student population enrolled at Ohio University. Students with a prior bachelor's degree are ineligible.

**Ohio University Grants.** These institutional grants are made available by the University to supplement the limited Federal SEOG funds for undergraduate students with need or students with special circumstances. Ohio University must have received the results of the FAFSA by the March 15 priority deadline.

**Ohio Instructional Grant (OIG).** The OIG is a need-based state-funded grant to assist Ohio residents in meeting the cost of undergraduate education. To be considered, you must submit the FAFSA. The deadline is October 1 of the award year, but you are encouraged to apply as soon

as possible after January 1. You will receive a notice of eligibility from the Ohio Board of Regents.

#### **Self-Help Aid—Student Loans**

**Federal Perkins Loan.** The Federal Perkins Loan is a federal loan for students enrolled in a degree program at a participating post-secondary institution. No interest is charged while you remain in school, and the repayment period begins nine months after you graduate or leave school. To apply, file the FAFSA or Renewal Application. The interest rate is currently five percent, and loans can be included under the loan consolidation provisions of the Reauthorization Act. You must sign both an electronic master promissory note and "personal and confidential" form before a disbursement can be made.

**William D. Ford Federal Direct Student Loans (FDSL).** The Federal Direct Loan is a low-interest loan for students enrolled at least half time in a degree program. Since 1994–95, Ohio University has been a Direct Lending Institution. The University acts as the lender on behalf of the U.S. Department of Education and disburses William D. Ford Federal Direct Loan funds directly to student accounts. The University cannot process Federal Stafford Loan applications from lending institutions such as banks.

There are two kinds of Federal Direct Loans—subsidized and unsubsidized. The federal government will pay the interest on the Federal Direct Subsidized Loan while you are in school and during a grace period or deferment period. You are responsible for paying the interest on any Federal Direct Unsubsidized Loan. However, you may defer payments and capitalize the interest until you enter repayment.

If you wish to apply for a Federal Direct Loan (subsidized or unsubsidized), you must file the FAFSA or Renewal Application to determine your eligibility. The Federal Direct Unsubsidized Loan is available if you do not qualify for the Federal Direct Subsidized Loan or if your eligibility for subsidized funds is limited. You will receive notice of eligibility on your award letter and must complete the Electronic Master Promissory Note or confirm your eligibility on our Website (if you signed a Master Promissory Note in a previous year) before funds can be credited to your account. Funds credited in excess of charges will be refunded by the

bursar at regular intervals during the quarter. All first-time borrowers are required by federal regulations to complete entrance counseling before funds can be disbursed. If you are in repayment on prior loans, you may be eligible for a deferment, and loans can be consolidated under certain conditions. Additionally, federal regulations require that all borrowers complete exit counseling before graduating or once you have dropped below half time enrollment. Exit counseling provides information regarding borrower rights and responsibilities and outlines repayment options.

**Ohio University Loans.** During periods of enrollment, funds are made available by the University to provide short-term emergency loans for students. These loans are available to assist in the payment of University bills and educationally related expenses, provided you are enrolled at least half time and have a guaranteed source of repayment that will be available by the end of the same quarter. A one-page application must be completed. The completed application will be reviewed to determine if you qualify for a short-term emergency loan. Checks are generally available within three working days after the loan is approved. A personal interview with a financial aid administrator may be required. Students are not eligible if in default of previous institutional or federal loans. Borrowers are charged a \$5 processing fee and may be charged an interest rate of nine percent. Ohio University loans are not available during periods of nonenrollment.

**William D. Ford Federal Direct Parent Loan for Undergraduate Students (PLUS).** The Federal Direct PLUS Loan is a supplemental loan for parents of dependent undergraduate students. Your parent(s) must be your natural, adoptive, step parent(s), or your legal guardian(s). Parent borrowers are subject to a credit check and must not have an adverse credit history. We require that you and your parent(s) file the FAFSA or Renewal Application to determine eligibility for other sources of aid. The Federal Direct PLUS Loan must be used for your educational expenses. Loan proceeds are applied directly to your account, and any overage may be refunded to you (with parent approval) or to your parent each quarter throughout the year. Repayment begins 60 days after

the final disbursement. For additional information, visit our Web site at <http://www.ohio.edu/financialaid/>

**Alternative Loans.** Students may apply for additional loans through private lenders to help cover expenses if approved. You can borrow the total estimated cost of attendance (see your award letter) less your total financial aid. Students generally must have a positive credit history or provide a creditworthy co-signer. Interest rates and loan fees vary from lender to lender. Repayment begins six months after you graduate or cease half-time enrollment. For more information and a list of private alternative lenders, visit our website at: [http://www-sfa.chubb.ohiou.edu/loans\\_alt.html](http://www-sfa.chubb.ohiou.edu/loans_alt.html)

**Self-Help Aid—Employment Federal Work Study (FWS).** This need-based federal program allows you to earn a portion of your educational expenses through part-time employment. If you have not been employed through FWS in the past, you will be directed as to how to select a position on your award letter. If you are a returning student you will be reassigned to your previous job site, unless you indicate that you wish to be assigned elsewhere. Whenever possible you are placed in a position that relates with your career interests or academic major or in a community service position. You are paid at least minimum wage for the number of hours actually worked. Students are paid by check every two weeks. Seven percent of Ohio University FWS positions must meet the definition for community service, and you may apply for available community service positions. The federal government stipulates that jobs available under the FWS program may not displace presently employed persons or fill regular job openings, including student employment.

**Program to Aid Career Exploration (PACE).** The PACE program, co-sponsored by the OSFAS and Career Services, is unique to Ohio University. The intent of the program is to provide you with the opportunity to earn money to help meet educational expenses while gaining career-oriented work experience. PACE students earn \$600 a quarter for no more than 100 hours of work. To be eligible for PACE employment, you should:

- 1 Be an undergraduate
- 2 Have earned at least 30 hours at time of application
- 3 Have at least a 2.3 accumulative grade point average
- 4 Be in need of earnings as defined by the OSFAS.

International undergraduate students who meet the above criteria are eligible to participate in the PACE program.

PACE employment is available only to Athens campus students who are enrolled full time and not simultaneously employed in FWS. PACE information and applications are available on the OSFAS Web site.

**Centralized Student Employment Service (CSES).** Ohio University established the CSES to provide job opportunity information for all students enrolled at least half time. Its purpose is to assist in hiring students for part-time jobs, to maximize employment opportunities and job placement, and to help coordinate student employment policies and procedures. CSES job opportunities are posted from all hiring departments at the Athens campus as well as off-campus employers.

Job listings appear on a board outside 020 Chubb Hall and on the OSFAS Web site, <http://www.ohio.edu/financialaid/>. Employment opportunities for students are posted when new positions become available and when vacancies occur. You will be referred to potential employers for interviews and hiring decisions. Because the job posting service is centralized, you are assured an equal opportunity to apply for jobs. Most international students are eligible to use the CSES.

#### **Job Location and Development (JLD).**

To assist students with finding off-campus positions, free job listings from community businesses and individuals are made by the OSFAS. Students who are enrolled at least half time may receive referrals to these off-campus job opportunities.

Postings are frequently made for summer and quarter-break jobs. OSFAS also hosts an annual Summer Camp-Resort Job Fair in February, which attracts recruiters from 50 camps and resorts in Ohio and the eastern United States. Admission is free, and 150 to 200 Ohio University students are employed by the camps each summer.

#### **Services to Students**

The OSFAS is open from 8:30 a.m. to 4:30 p.m. Monday through Friday. (Summer and winter break hours may vary slightly.) All financial aid applicants are assigned a counselor to assist with financial aid matters. You may schedule an appointment with your assigned counselor during OSFAS service hours (excluding the lunch hour from noon-1 p.m.). Counselor assignments are made alphabetically according to last name and are listed on the OSFAS Web site. Services provided by the counselors include confirmation of financial aid for preregistration, review of financial need and eligibility, and review of policies and procedures for different types of financial aid programs. Emergency situations may be accommodated immediately on a case-by-case basis. To ensure access to services, applicants with disabilities who require special assistance should contact the financial aid office to make arrangements.

# Academic Policies and Procedures

## Precollege Orientation

**As an incoming first-year or transfer student at Ohio University, you will participate in Precollege Orientation. You will meet with faculty, administrators, and other students who will acquaint you with University policies, academic requirements, and student services, as well as help you register for your first quarter classes. Precollege Orientation for fall quarter first-year students is held in one-and-a-half-day sessions during the summer. Transfer students attend one of two one-day sessions in mid-summer. A one-day session is held in September for both transfer and first-year students who cannot attend during the summer. Your parents or spouse are encouraged to attend. Information will be mailed to you in early May.**

**If you are entering the University in a quarter other than fall, an orientation and registration program will be conducted before the beginning of that quarter. Information will be sent to you from University College.**

**Further information about Precollege Orientation is available from University College, Chubb Hall 140, telephone 740.593.1951 or by visiting <http://www.ohio.edu/precollege/>.**

## Registration Information

### Registration

As noted above, if you are an incoming first-year or transfer student, you will receive assistance with class registration along with other information during Precollege Orientation.

If you are a current or re-enrolling student at Ohio University, you should follow procedures for using either the Web Registration system or the Touch-Tone Registration and Information Processing System (TRIPS). Both procedures appear in the *Schedule of Classes*, available online at <http://www.ohio.edu/registrar/> or in the registrar's office approximately two weeks before the beginning of preregistration each quarter.

### Late Registration

Registration is not permitted after the first 15 calendar days of the quarter (in the case of some individual classes, after the first day). All registration procedures should be completed by the 15th calendar day of the quarter.

In cases where late registration is necessary, you will be charged a retroactive registration correction fee beginning with the third calendar week of each quarter unless late changes are the result of University delays as judged by the registrar. The fees are: third week, \$40; fourth week, \$60; fifth week, \$80; and sixth week, \$100.

### Identification Card

When you register, you will be given information about obtaining an identification card, issued by Communication Network Services (CNS), located in HDL Center room 154. This card, which is validated by your registration, gives you access to campus services including the meal plan, athletic events, library privileges, and the Student Health Service.

The card is issued free of charge according to these guidelines:

- 1 If you are a new student, you are issued a card free of charge.
- 2 If you are a re-enrolling student returning after one year or more, your old card will be valid upon registration. If you no longer have your old card, you will be issued a new card free of charge.
- 3 If your name or Social Security number has changed, you will be issued a new card free of charge provided you return your old card when the new one is issued.

Ohio University charges a card replacement fee under these circumstances:

- a You will be charged \$10 to replace a card that is lost, stolen, or damaged within one year of your last quarter of enrollment. (A \$5 refund will be issued if you find your old card and return it to CNS during the same quarter in which it was replaced.)

- b If your name or Social Security number has changed, you will be charged \$10 for a new card only if you do not return the old card. If you return the old card when the new one is issued, you will not be charged.

### Updating Personal Information

You must report any changes in your personal data to the Office of the University Registrar. This includes changes in name, social security number, birthdate, address, telephone number, or emergency contact information. Requests for changes in name, social security number, or birthdate must be accompanied by documentation verifying the correct information as required by the registrar's office. These requests should be sent to Registrar Services Windows, First Floor, Chubb Hall.

Address, telephone number, and emergency contact information may be updated online at <http://www.ohio.edu/registrar/> by selecting "Address Update" (Oak ID and password are required to use this service). In addition, you may also update this information by e-mailing [address@ohio.edu](mailto:address@ohio.edu) (be sure to include your Personal Identification [PID] number and full name), completing a change of address form and depositing the form in an address deposit box located on the First Floor of Chubb Hall, or stopping by the Registrar Services Windows (First Floor, Chubb Hall), your regional campus student services office, or your college student services office.

*You are responsible for any University communication sent to you at your Oak e-mail address or at the address on file with the registrar.*

## Enrollment Information

All course credit earned at Ohio University is designated in quarter hours. Normally a quarter hour is the equivalent of one lecture or two laboratory periods a week throughout the quarter.

### Student Standing (Freshman, Sophomore, Junior, Senior)

Your student standing—or year in college—is determined by your total number of quarter hours earned. Freshmen have completed 0 to 44.9 hours; sophomores, 45 to 89.9; juniors, 90 to 134.9; and seniors, 135 and over.

### Course Load

As an undergraduate student, you will usually carry a course load of 16–20 quarter hours, even if you are on academic probation. For tuition purposes, a course load of 11–20 quarter hours is assessed full-time fees by the University. If you receive financial aid or veterans educational benefits, or are a student athlete, you must carry a minimum of 12 quarter hours to be considered eligible. If you receive a scholarship you must carry 12–16 quarter hours, depending on scholarship criteria. Note that completing 16 hours per quarter for three quarters per year for four years makes a total of 192 quarter hours—the minimum total required for a bachelor's degree from Ohio University.

If you schedule fewer than 11 credit hours, you will be assessed part-time fees for the quarter. If you register for more than 20 hours, you will be charged an additional fee for each hour over 20. Web Registration and TRIPS will not allow you to register for a course which causes the total hours to exceed the maximum. You must receive permission from your college or regional campus student services office to register for more than 20 hours in a quarter. If you are granted permission to exceed the maximum hours you will receive a Permission to Exceed Maximum Credit Hours form that should be returned to one of the Registrar Services Windows, First floor, Chubb Hall.

**Veterans Educational Benefits.** If you are an undergraduate planning to receive Veterans Education Assistance, you must register for at least 12 quarter hours for full benefits to be awarded. For more information about veterans benefits, contact the Veterans Coordinator, Registrar Staff Offices, First floor, Chubb Hall 108, 740.593.4186.

**Student Athletes—Maintaining Eligibility.** As a student athlete, after your first academic year in residence or after one season of eligibility in a sport, eligibility for competition shall be determined by your academic record in existence at the beginning of the fall quarter or at the beginning of any other regular quarter of that academic year, based on satisfactory completion of at least: (a) 36 quarter hours of academic credit prior to the start of the institution's fourth quarter following your initial quarter of full-time enrollment, with no more than 9 of the 36 quarter hours being earned during

the summer term; (b) 27 quarter hours of academic credit since the beginning of the previous fall term or since the beginning of the certifying institution's preceding regular three quarters (hours earned during the summer may not be used to fulfill this requirement); and (c) 6 quarter hours of academic credit the preceding regular academic quarter in which you have been enrolled at any collegiate institution.

You must be enrolled in a minimum of 12 quarter hours to be eligible for practice or competition. Additionally, freshmen and sophomores must maintain a minimum accumulative grade point average of 1.8, while juniors and seniors must maintain a minimum accumulative grade point average of 2.0 to be eligible for competition.

You must declare a major by the beginning of your third academic year and have completed at least 40 percent of the specific degree program requirements. By the beginning of your fourth year, 60 percent, and by the beginning of your fifth year, 80 percent of the specific degree program requirements must be met.

### Declaring a Major

Normally you will declare a major when you apply as a freshman or transfer student by indicating the name and the six-character major code number on the application form. If you are unsure about a major, Ohio University allows you to enroll as an undecided major in University College or many other colleges.

Some programs of study have higher admission requirements than those set by the University in general, and admission to the University does not automatically grant admission into those programs. Consult the college in which the major is offered or the Office of Undergraduate Admissions for further information on limited or selective admissions policies for specific programs.

### Changing Your Major or College

If you are classified as undecided and wish to declare a major, or if you would like to change your major, contact the college in which the major is offered to see if you meet the entry requirements.

Sometimes a change in major will necessitate transferring to another college (e.g., from Arts and Sciences to Communication). You then make application for transfer in the student

services office of the college to which you would like to be admitted. If you are an Honors Tutorial or University College student, go to your current college before applying to the student services office of the college to which you would like to be admitted. The change must be processed through the student services office of both colleges within the first 15 calendar days of the quarter (the specific date is published in each quarter's Schedule of Classes), or you will remain enrolled in the initial college for that quarter. You must fulfill degree requirements of the college into which you transfer. You may, however, pursue programs in more than one college simultaneously. Consult your college's student services office about double degrees and dual major opportunities.

### Changing Your Class Schedule After Classes Begin

Note the terminology used in explanations of the deadlines that follow:

**Quarter:** any quarter, including the 10-week summer quarter

**Sub-term:** any five week summer session

*In the case of flexibly scheduled classes (classes that meet for fewer days than a quarter or sub-term), the deadlines are pro-rated. Contact the registrar for deadline dates.*

You may add a class, drop a class, or correct your registration using the Web Registration system or the Touchtone Registration and Information Processing System (TRIPS) before the quarter or sub-term begins. However, adding certain classes after classes begin requires special permission from the instructor, and dropping any class after the 35th calendar day of a term or 17th calendar day of a sub-term is generally prohibited except by petition through your college's student services office. (See "Drops" below.)

**Adds.** You may add a class via Web Registration or TRIPS only during the first eight calendar days of any quarter or sub-term. However, please note that departments or individual instructors may close registration for their courses prior to the eighth day. After the eighth day of the quarter or sub-term, you may add a class only with instructor permission. For classes requiring the instructor's permission, you will need to obtain a



permission slip from the instructor or departmental representative and then return the slip to the office indicated on the slip for final processing. You may add a class for which you have not met the prerequisite only by receiving the instructor's permission to take the class. Others may be added via Web Registration or TRIPS through the eighth calendar day of the quarter or sub-term.

**Drops.** You may use Web Registration or TRIPS to drop any class through the 35th calendar day of a quarter or the 17th calendar day of a sub-term. Dropping a class is generally prohibited after these deadlines, but under very exceptional circumstances you may petition your college in writing to make an exception. Your reason must be substantial. Fear of earning a low grade in the class, for example, is not considered to be an exceptional circumstance.

If you drop a class during the first 15 calendar days of a quarter or 8 calendar days of a sub-term, there will be no record of that class on your academic record. When you drop a class after the 15th calendar day of a quarter (8th calendar day of a sub-term), your instructor will assign either a grade of Withdrawn Passing (WP) or Withdrawn Failing (WF), indicating your academic progress at the time the class was dropped. These grades will appear on your academic record and subsequent DARS reports, in addition to your official transcript. They do not affect your g.p.a.

If you drop hours through the 15th calendar day of a quarter (8th calendar day of a sub-term), you are entitled to a 100 percent refund of the reduction if the change results in a reduction of registration fees. Changes made after the deadlines will result in no refund. If you are receiving financial aid, a change in enrollment status may result in your having to repay programs from which you received aid. (See "Refund of Fees" for more information.)

After the first 15 calendar days of the quarter (8 calendar days of a sub-term) pass, your schedule becomes official. Your final tuition charges are based on your enrollment as of the deadline. If you withdraw from the University or reduce your courseload after the deadline, you must still pay the full tuition fees and your class(es) will remain on your academic record with WP/WF grade(s). Withdrawal during

the first 15 calendar days of a quarter or 8 calendar days of a sub-term results in an 80 percent tuition refund.

Only in extreme instances in which circumstances beyond your control make you unable to have your registration in order by the 15th or 8th calendar day deadlines will the University consider making an exception to this policy. Even then, such decisions are made by a special review panel and require that formal documentation such as a doctor's statement be submitted to the Review Panel. The student services office in your college can help you present an appeal to the review panel.

### **Cancelling Registration or Withdrawing from the University (Dropping All Classes)**

**Cancellation Before Classes Have Begun.** Cancellation of registration is defined as dropping all classes before the first day of classes. This includes all classes for which you are registered on all (one or more) campuses, but not distance learning courses in the Division of Lifelong Learning, for which students register and pay separately. You may cancel your registration by using Web registration or TRIPS, or you can call or visit the registrar's office or the student services office of your college to obtain a cancellation of registration form, which you then complete and return to the registrar's office. A refund of your registration fees is made according to the schedule in the Refund of Fees section. Cancelling registration for a term does not prevent a student from registering for a future term.

### **Withdrawing After Classes Have Begun.**

Withdrawing from the University is defined as dropping all classes on or after the first day of classes and no later than the day before the last day of classes for the quarter or sub-term. Note that this means all regular Ohio University classes for which a student is registered for a given term, whether on one campus or more than one. This does not prevent a student from registering for a future term. Withdrawal is not permitted on or after the last day of classes. This may not be done using Web Registration or TRIPS. Apply for withdrawal by completing a withdrawal request form obtained from the student services office of your college or regional campus. When the request has been approved by the college or regional campus student services office and housing, your withdrawal is processed by the

registrar's office, which grants an official withdrawal after determining that all obligations to the University have been met.

### **Tuition Issues**

When changes in a student's registration affect the total registration in a way that changes the amount of tuition, the student will receive the appropriate refund or pay the appropriate forfeiture for the class(es) dropped, according to the deadlines for those classes, and the tuition for the remaining registration will be re-calculated.

Tuition for summer students who schedule a total of 11 or more hours in any combination of summer registration in the full term or the two sub-terms will be calculated in the usual way (1-10 hours equal part-time, 11-20 hours equal full-time for undergraduates; 1-9 hours equal part-time, 10-18 hours equal full-time for graduates). When dropping classes affects the total registration for the summer in a way that changes the basis for tuition, the tuition will be re-calculated for the remaining registration, and the student will receive the appropriate refund or pay the appropriate forfeiture for the class(es) dropped, according to the deadlines for those classes.

Your change in enrollment status may result in your having to repay programs from which you have received financial aid. See the Refund of Fees and Financial Aid sections for further information.

### **Multiple Consecutive Withdrawals.**

Two or more consecutive withdrawals can be cause for placement of a registration hold on your record by the registrar or your academic dean. A petition to release this hold would be considered by your academic dean.

**Withdrawing for Medical Reasons.** In the event of serious physical or mental illness, you may arrange for a medical withdrawal from the University. Your withdrawal will be effective on the date you sought treatment from the Student Health Service for your illness or injury, or the last date you attended classes, depending on your particular circumstances. If you were treated by an outside physician who has recommended a medical withdrawal, that recommendation must be sent to the medical director of the Student Health Service.



To arrange for a medical withdrawal, contact the medical director of the Student Health Service (for physical health problems) or the director of Counseling and Psychological Services (for mental health problems). The director will make a written recommendation to your academic dean for a medical withdrawal.

It is possible to withdraw for medical reasons through the day before the last day of classes for the quarter or the summer subterm. After that, the appropriate director and the dean of your college must agree on the withdrawal.

If you are granted a medical withdrawal, you will receive notification in the mail from the medical director. A refund of fees, if applicable, will be based on the effective date of your withdrawal and will be made according to the schedule in the Refund of Fees section. A medical hold will be placed on your records, and to re-enroll you will have to request a medical clearance from the appropriate director. When the clearance is approved, the hold will be released.

### **Class Attendance Policy**

The weight given to class attendance in determining your grade is an academic matter; thus, all instructors are responsible for their own attendance policies. Though your instructor will state specific attendance requirements during the first week of classes each quarter, the University does expect you to attend classes regularly.

**Excused Absences.** Although instructors' policies govern how excused absences will be handled in their classes, certain absences are considered legitimate by the University. These include illness, death in the immediate family, religious observance, jury duty, and involvement in University-sponsored activities.

If you are returning to class after a legitimate absence, you can expect your instructors' assistance (makeup work, excused absences, recalculation of the student's grade based on remaining work) within the limits of their established attendance policies. There are occasions when the size or the nature of the course makes it necessary to limit the number of excused absences or the availability of makeup work, particularly for examinations or such special events as field trips or outside speakers. Such limitations

should be explained in the instructor's attendance policy at the beginning of each course. *If you are involved in University activities that may conflict with your class schedule, check with your instructor as early as possible to make satisfactory arrangements.* You may document reasons for your absence as follows:

If you are participating in an authorized University activity (departmental trip, music or debate activity, ROTC function, or athletic competition), you can obtain notification from the sponsoring office. If you are hospitalized at O'Bleness Memorial Hospital, you are not issued a notification of class absence. However, you may request that your instructor call the Student Health Service to verify your hospitalization. If you receive out-patient care at the Student Health Service, you will not be issued a notification of class absence. However, if you give written permission for the information to be released, you may request that your instructor call for verification that you received outpatient care. It is assumed that, whenever possible, you will visit the health service as an outpatient without missing class.

If you receive medical care from personnel or facilities other than the Student Health Service, you are required to provide verification of the dates you received care.

If your grade has been affected by a legitimate absence or absences that your instructor does not excuse, you may appeal through the normal grade appeal process (first through the instructor, then the department chair or school director, and then the dean of your college). If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal.

**Two-Hour Rule.** If you miss the first two contact hours of a class for which you have registered, the instructor has the option of not admitting you to the class. (This policy applies to the first two hours of a class, not to the first two class meetings.) If you miss the first two contact hours, check with your instructor to verify your status in the class. If you have not been admitted,

you will need to drop the class through Web Registration or TRIPS. (See "Change of Course Schedule.")

**Note:** If the instructor does not admit you to the class, you still must drop the class from your schedule using Web Registration or TRIPS. Otherwise, you will receive an F, an FN (failure never attended), or an FS (failure stopped attending) for the class at the end of the quarter.

### **Auditing**

You may register to audit classes, which allows you to preview or review courses without receiving a grade or credit hours, but the choice to audit must be made and identified at the time of registration. Changes from audit to credit or from credit to audit must be made during the first 15 calendar days of the quarter (first 8 days of summer sub-term). Audited classes count in calculating tuition, but they do not carry credit or count toward financial aid eligibility. Audited courses will appear on your official transcript but will not affect your g.p.a. or hours earned. Auditing a class is not the same as taking it on a pass/fail basis. (See Pass-Fail Grading Option, p. 15.)

Your instructor may set up specific requirements for auditing the class, and if you do not meet the requirements, you may be removed from the class at your instructor's discretion with a grade of WP or WF. Be sure to discuss your auditing status with your instructor at the first class meeting.

### **Senior Citizens Sixty Plus Program**

Ohio State Law (Section 3345.27 of the Ohio Revised Code—House Bill 147—effective March 30, 1999) permits the qualifying student to attend any state college or university without paying "tuition or matriculation" fees. (Special course fees, technology fees, laboratory fees, etc., are the responsibility of the student and will not be waived.) This program is available only for regular classroom undergraduate courses offered on the Athens and regional campuses and only if space is available in the class. Registration will be processed only after priority registration for other students is completed. Qualifying student is defined as "any person who is sixty years of age or older and who has resided in the state for at least one year." Under this provision, the student has two options:

**Option A—Non-Credit.** The qualifying student who wishes to participate in classes but not for credit asks permission of the instructor to sit in on the class. The student should complete the Application for Sixty Plus Program, obtain appropriate signature(s), and return the application to the Office of the University Registrar or regional campus student services office with proof of age and Ohio residency.

**Option B—For Credit.** The Option B procedures are for the qualifying student who wishes to earn credit for the tuition-free courses. The academic load under this arrangement for a given quarter must be less than full-time; i.e., less than 11 quarter hours. In addition to being a "qualified student" as described above, the student's family income must be "less than two hundred percent of the federal poverty guideline, as revised annually by the United States secretary of health and human services in accordance with Section 673 of the 'Community Services Block Grant Act,' 95 Stat. 511 (1981) 42 U.S.C.A. 9902, as amended, for a family size equal to the size of the family of the person whose income is being determined." The student should complete the Application for Sixty Plus Program and follow the instructions for processing as described on the application.

Applications for enrollment may be obtained at the Registrar Services Windows in Chubb Hall, First Floor.

### Visiting

You must be a registered student or approved under Sixty Plus program in order to attend classes at Ohio University. If you are a full-time student, you also have the privilege of visiting classes for which you haven't specifically registered if you obtain the instructor's permission ahead of time.

### Taking Graduate-Level Courses

As an undergraduate student, you are not eligible to take graduate courses for credit unless you are in the Honors Tutorial College or participate in one of the following programs:

**Departmental Honors.** Students in a recognized departmental honors program may take a maximum of three graduate courses in their major department during their senior year (i.e., after earning 135 or more hours of credit). Hours earned in these courses will count toward total hours required for the undergraduate degree only and the grades will be

calculated into the undergraduate g.p.a. Registration in graduate courses requires written permission from the instructor. Participation in this option is at the discretion of the department or school. Students process this special registration by obtaining permission from the departmental honors coordinator and submitting the approval form to the Registrar's Office for processing.

**Senior for Graduate Credit.** If you are an Ohio University student, or a well qualified senior attending another university and within nine hours of completing all requirements for a bachelor's degree, you may be eligible for graduate study as a senior. You must have an overall g.p.a. of at least 2.5 and obtain written permission from the graduate chair of each department offering the graduate courses and from your college Student Services Office. Permission to take such courses does not grant admission to a graduate degree program. If you are admitted as a senior for graduate credit, you will pay undergraduate fees and will not be eligible for graduate assistant or graduate scholarship support. Generally, no more than two graduate courses may be taken in this way, and graduate courses will not fulfill any undergraduate requirements. The graduate credit becomes part of your graduate record only; it does not affect your undergraduate course requirements, hours earned, or g.p.a.

Request this option through the Office of Graduate Student Services, McKee House, before registering. A \$10 application fee is charged, and admission is granted for one quarter only.

### Early Admission to a Graduate Program.

Based on superior undergraduate performance, you may qualify for early admission to a graduate degree program. You must have an overall g.p.a. of at least 3.5 and must have completed all undergraduate requirements, except the total credit-hour requirements, by the time you enter the graduate degree program. You also must obtain written permission from your department, the department's graduate committee, and the Student Services Office of your undergraduate college. Once admitted, you may enroll in graduate classes for graduate credit. These classes can be used to satisfy both graduate degree requirements and undergraduate total credit hour requirements, but the hours

and grades are part of your graduate record only. Apply through the Office of Graduate Student Services before registering. If you qualify, you pay graduate fees only and are eligible for graduate assistant or scholarship support.

### Final Examinations

Final examinations for classes are held during a formal examination period at the end of the academic term. You are required to take the examinations according to the schedule published by the registrar's office in the quarterly Schedule of Classes, which is available online at <http://www.ohio.edu/registrar/> or in print at the Office of the University Registrar in Chubb Hall.

Each final examination is scheduled for two hours. Final examinations are given in the regularly scheduled classroom unless the instructor is giving a combined sections examination. Instructors will notify students in courses having combined sections examinations of the time and location of the classroom where the examination will be given.

Students will not be required to sit for more than three final examinations in one day. Should a student be scheduled for more than three examinations in one day, the student may seek relief from the instructor with the examination scheduled latest in the day. This process must be initiated and completed by the ninth week of the quarter. The instructor will provide an examination for the student at a mutually agreed upon time during the examination week.

The final examination for departmental honors work must be taken before the opening of the regular examination period. Consult your departmental honors program coordinator for more information.

### Grading

At the close of a session or upon completion of a class, the instructor reports a final grade indicating the quality of a student's work in the class. The University Registrar's deadlines for submitting grades each quarter or session must be met. Failure to do so creates problems for students such as loss of employment, scholarships, financial aid, and opportunities for further study. Once grades are submitted to the University Registrar, they are final and cannot be changed

unless evidence of an error can be presented or a formal grade appeal process is completed in accordance with Ohio University's official grade appeal policy (see the *Faculty Handbook* section "Final Examinations and Change of Grade"). **Grades cannot be changed by arranging to complete additional work.** Grade point values are assigned for each quarter hour of credit completed according to the grading system below.

The basis for determining a student's scholastic standing is the grade point average (g.p.a.). This average is determined by dividing the total number of grade points earned by the total number of quarter hours of credit attempted. For example, if a student earned a C (2.0) and a B (3.0) in each of two five-hour courses, first multiply the number of hours in each course by the grade point value for that grade ( $5 \times 2 = 10$  and  $5 \times 3 = 15$ ) and add the grade points for each course together to find the total number of grade points (25). Then add the number of hours attempted ( $5 + 5 = 10$ ) and divide the total number of grade points by the total hours attempted ( $25/10 = 2.5$ ). The student's g.p.a. after completing the two classes would be 2.5. A student's g.p.a. is figured only on credit hours attempted—courses for which the student receives letter grades (A-F), FN (failure, never attended), or FS (failure, stopped attending). FN and FS have the same value as an F. Grades of P (pass) and CR (credit) represent hours earned but are not used to calculate the g.p.a.

A course for which a grade has been assigned by a faculty member will not be removed from the student's academic record without approval of the Review Panel and the instructor (see Policy 12.050, "Student Class Drops and Withdrawals" and the *Faculty Handbook*).

### Repeating a Course

Repeating a course is to complete a course more than once for credit. This can be done only with repeatable courses, which are designed to be taken multiple times (e.g., MUS 340, PSY 490). Some departments place a limit on the total number of credits that may be earned in a given repeatable course.

### Retaking a Course

A regular course with fixed content can be retaken to affect the student's g.p.a. Retaking the course removes the hours and the effect of the earlier grades

from the calculation of the g.p.a. However, all grades appear on the permanent academic record (transcript). The last grade earned is the one used to calculate the g.p.a., even if it is lower than the earlier grade(s), and only the last instance's credit hours are accepted toward any requirements for graduation. Some graduate and professional schools will include all grades in their own calculation of the g.p.a. when determining a student's eligibility for admission, even though Ohio University calculates the g.p.a. using only the last grade in a retaken course.

As a rule, a course designed as a prerequisite may not be retaken to affect the g.p.a. after completion of higher-level coursework in the same subject area. Courses taken at Ohio University and retaken at another university are not eligible for grade point adjustment under this policy. Some departments limit the number of times a course may be retaken. Students should check with their college student services office regarding restrictions.

Retaking a course after graduation will not change graduation g.p.a., honors status, or rank in class.

### Pass/Fail Grading Option

Taking a course pass/fail is an option designed to encourage you to explore areas of study in a way that will not negatively affect your g.p.a. See the description of the "P" grade for additional information and restrictions for use of this option.

### Transfer Credit Grades

Grades for all acceptable transfer courses in which grades of C- or better are earned are converted to "T" on the student's academic record and the Degree Audit (DARS) Report. The number of quarter hours of credit earned at each institution is recorded on the permanent record transcript, but no grades are recorded. Transfer students, therefore, enter Ohio University with no grade point average on their Ohio University academic records.

Normally D+, D, or D- grades are not transferable. However, if one of these has been earned in a course which was a specific prerequisite (as stated in the academic catalog of the prior school) to a course in which the student earned a grade of C- or better, then the course

in which the D+, D, or D- was received will be accepted for credit earned, and the T will be recorded on the DARS report.

### Segmented Transcript Policy

The segmented transcript policy was developed as a way to allow students who leave the University with low grades and re-enroll after an absence of four or more years to begin coursework without the threat of academic probation. Under this policy, all of the student's courses are reflected on the transcript, but the g.p.a. grades earned earlier are changed temporarily to CR (for any passing grade) and NC (for any failing grade), which removes them from the calculation of accumulative g.p.a., while the hours earned will be carried forward.

The new g.p.a. after segmentation will be used for determining probationary status and liability of being academically dropped. The new g.p.a. also may be used, at the discretion of relevant officials or committees, to determine eligibility for entrance to academic programs or for scholarships and honor societies, although they also have the option of using the combined (true) g.p.a.

However, the g.p.a. for determining the 2.0 minimum overall g.p.a. for graduation and in the major, as well as honor status at graduation, is based on all hours attempted at Ohio University, including those attempted before segmentation. Upon graduation, the Registrar will return all grades to the originals and recalculate the g.p.a. Upon graduation, students may request a letter from their academic dean; this letter will explain the Segmented Transcript Policy and include the student's "Fresh Start" g.p.a. (the g.p.a. since segmentation).

Subsequent gaps of four or more years will not qualify students for further transcript segmentation.

The student must petition the student services office of the college dean to have the transcript segmented.

**I. Grades Used in G.P.A. Calculation**

<b>Letter Grade</b>	<b>Numerical Equivalent (Grade Point Value)</b>	<b>Description</b>	<b>Assigned by Faculty Member</b>
A	4.0	Excellent	Yes
A-	3.67	Excellent	Yes
B+	3.33	Good	Yes
B	3.00	Good	Yes
B-	2.67	Good	Yes
C+	2.33	Acceptable	Yes
C	2.00	Acceptable	Yes
C-	1.67	Acceptable	Yes
D+	1.33	Passing but Minimally Acceptable	Yes
D	1.00	Passing but Minimally Acceptable	Yes
D-	0.67	Passing but Minimally Acceptable	Yes
F	0.00	Failing	Yes
FN	0.00	<b>Failure, Never Attended.</b> This grade is given when the student does not officially drop a class for which he or she is officially registered but did not attend. FN counts as an F in the g.p.a. As with any other undergraduate grade in a nonrepeatable course, the FN may be replaced in the grade point average by the last grade earned if the course is retaken.	Yes
FS	0.00	<b>Failure, Stopped Attending.</b> This grade is given when the student stops attending but does not officially drop a course for which he or she officially registered and attended at least once. It counts as an F in the g.p.a. In addition, the last date of attendance indicated is recorded on the student's academic record. As with any other undergraduate grade in a nonrepeatable course, the FS may be replaced in the grade point average by the last grade earned if the course is retaken.	Yes
I*	0.00	<b>Administrative Incomplete.</b> Calculated as "F." Student either did not attend or stopped attending without officially withdrawing. Replaced with FN and FS fall 1998-99.	Yes—Inactive

**II. Credit Only—Included in Hours Earned but Not Used in G.P.A. Calculation**

<b>Letter Grade</b>	<b>Numerical Equivalent (Grade Point Value)</b>	<b>Description</b>	<b>Assigned by Faculty Member</b>
CR	N/A	<b>Credit.</b> A report of credit may be made for certain preapproved courses. Credit is to be used primarily for graduate level courses. Regardless of the level, using a CR grade for a specific course requires prior approval of the University Curriculum Council. Some colleges may limit the number of CRs applied to major and degree requirements.	Yes
P	N/A	<b>Pass.</b> Conversion of grades A through D- under the pass/fail option. The pass/fail option is designed to encourage students to explore areas of study which they might otherwise hesitate to enter. To be eligible, the student must have a g.p.a. of 2.5 or better for his or her latest quarter of full-time enrollment, or have an accumulative g.p.a. of 2.0 or better. First-quarter freshmen automatically qualify. The pass/fail grading option is subject to the following restrictions: 1) No course taken pass/fail may be used to fulfill any graduation requirement (college, school, or departmental) other than the total hours requirement. For example, courses taken pass/fail cannot be used to meet distribution requirements, minor or certificate requirements, requirements of courses above a specified level, a specific course established as a major requirement, or any other such requirements in the student's program. Colleges may refuse permission to use the pass/fail option for courses that are eligible to meet any such requirements that have not already been met by the student; if they do grant permission in such a case, the student will have to meet that requirement with some other course. Such courses taken pass/fail prior to the student's entering the program cannot apply to program requirements other than total hours for graduation. 2) The student may take no more than one class per quarter or sub-term by pass/fail. 3) The student may complete no more than 20 quarter hours under this option. 4) The instructor is not to know who elects his or her course on the pass/fail option. A letter grade will be turned in and then converted to a P or F on the student's academic record by the registrar. The original letter grade cannot be retrieved. To initiate the pass/fail option the student should register for the class via Web Registration or TRIPS, and then contact his or her college or regional campus student services office (during the first 15 calendar days of the quarter or first eight days of a sub-term only) to request that a class be taken pass/fail. Pass/fail requests by regional campus students are reviewed by the student's college student services office on the Athens campus, and may be denied if an inappropriate choice has been made. Pass/fail applications cannot be processed through Web Registration or TRIPS.	No
S	N/A	<b>Satisfactory.</b> Same Value as "CR" grade. Became inactive Fall 1967-68.	Yes—Inactive

**III. No Credit—Not Included in Hours Earned and Not Used in G.P.A. Calculation**

Letter Grade	Numerical Equivalent (Grade Point Value)	Description	Assigned by Faculty Member
AU	N/A	<b>Audit.</b> Indicates formal participation in a class, but not for credit or a regular grade. The student who registers for an audit is expected to attend and participate in the class according to the instructor's policy. Failing to do so can result in removal of the Audit from the record. (If this action results in a change of fees, the University policy on refund of registration fees will apply.) Audited classes are calculated in the tuition fees.	No
I	N/A	<b>Incomplete.</b> Receiving an "I" means that the student has not completed the work required for a regular grade. The student must have the instructor's permission to receive the Incomplete, and must complete the work within the first six weeks of his or her next quarter of enrollment or the "I" converts automatically to an "F." The instructor may request a one-time extension to the end of the quarter by completing a request for the extension through the Registrar's Office. When the student applies for graduation, any Incompletes on the record will be calculated as "F" grades for the purpose of determining eligibility for graduation and will be converted to "F" six weeks after graduation.	Yes
NC	N/A	<b>No Credit.</b> Conversion of freshman "D," "I," and "F" grades from summer 1969-70 through summer 1976-77 for courses taken under the ABC Grading System option. Also replaces all "F" grades under Segmented Transcript Policy (began fall 1985-86). NC grades are submitted by faculty to indicate non-passing performance by students in courses in the Ohio Program of Intensive English (OPIE).	No—except for OPIE
NR	N/A	<b>No Report.</b> This grade is assigned when: 1) The instructor does not report the grade; 2) The instructor reports the grade too late for quarterly processing; or 3) The instructor reports an ineligible grade for the grade eligibility code of the course.	No
PR	N/A	<b>Progress.</b> This grade is primarily used at the graduate level and applies only to a few very specific pre-approved undergraduate courses that are designed to span more than one quarter. This grade indicates that the student has made progress in the course but has not finished the work required for a letter grade. It may extend longer than one quarter.	Yes
W	N/A	<b>Withdrawal.</b> Officially dropped class or withdrew from University. Became inactive fall 1973-74.	No—Inactive fall of 1973-74
WP	N/A	<b>Withdrawn Passing.</b> This grade designates classes dropped after the 15th day of the quarter (eighth day of a sub-term). It indicates that the student was passing at the time of withdrawal.	Yes
WF	N/A	<b>Withdrawn Failing.</b> This grade designates classes dropped after the 15th day of the quarter (eighth day of a sub-term). It indicates that the student was failing at the time of withdrawal.	Yes

**Academic Status****Deans List**

The Deans List, compiled quarterly, includes the names of all students whose g.p.a. for the quarter is at least 3.3 for a minimum of 16 quarter hours of credit earned, including at least 12 hours attempted for letter grades that are used to calculate your g.p.a.

**Academic Probation**

To avoid academic probation, you must maintain an accumulative g.p.a. of at least 2.0. At the close of each quarter in which you are a full-time student, your record will be reviewed to verify your g.p.a. If you are a part-time student, the review will take place at the close of the quarter in which your accumulative number of hours of enrollment since your initial enrollment, or since your last review, exceeds 10

**Probation and Continuation.** If at the time of the review you do not have the required 2.0 minimum g.p.a., you will be placed on academic probation. If you are already on probation, you may be allowed to continue at the University until the next review if,

in the opinion of the dean, you are making adequate progress toward attaining a 2.0 g.p.a. A continuance can be granted a maximum of three times; thus, there is a limit of four consecutive quarters on academic probation if you are a full-time student.

Normally, adequate progress is based on reducing, or at least not increasing, the number of deficiency points you have, which is determined by multiplying your total number of hours attempted by two and subtracting grade points earned. For example, if you have attempted 40 hours and have earned 65 grade points for those hours, first multiply hours by 2 ( $40 \times 2 = 80$ ). Then subtract the number of grade points ( $80 - 65 = 15$  deficiency points). Increasing your grade points for additional hours can decrease your deficiency points and show that you are making adequate progress. This can be done by earning grades of C+ and above in the hours you attempt.

Some colleges require higher standards of performance than the University's 2.0 minimum. If you have been dropped from a college because of failure to

meet such additional standards but are not subject to dismissal according to the University rules below, you are still eligible for admission to other programs in the University.

**Removal from Probation.** Removal of probationary status is automatic at the close of the quarter of review for both part-time and full-time students when your accumulative g.p.a. rises to 2.0 or above. Part-time students may be on probation between quarters of review even though their g.p.a. is 2.0 or higher.

**Dismissal (Drop) and Reinstatement.** If you are denied continuation of probation, you will be dropped from the University. A status of "Drop I" means you were dropped because of an increase in deficiency points. "Drop L" means you reached the limit of four probationary quarters. If you have been dropped, you are not able to enroll for regular courses on any Ohio University campus.

You may petition the dean of your college for reinstatement, but normally reinstatement will

not be granted until at least 12 months after your dismissal. As a condition for reinstatement, the dean of your college may suggest remedial steps you can take, usually in the form of courses to be taken at other institutions or through Ohio University's Distance Learning courses in the Division of Lifelong Learning. Successful performance in this coursework may constitute sufficient grounds for waiving or shortening the waiting period for reinstatement.

If you have been dropped from the University for a second time, reinstatement is possible only under extraordinary circumstances and usually is not granted until at least 24 months after the second dismissal.

#### **Academic Misconduct**

All forms of academic misconduct are prohibited by the Student Code of Conduct. Academic misconduct refers to dishonesty in assignments or examinations (cheating); presenting the ideas or the writing of someone else as your own (plagiarism); or knowingly furnishing false information to the University by forgery, alteration, or misuse of University documents, records, or identification. Academic misconduct includes, but is not limited to, permitting another student to plagiarize or cheat from your work; submitting an academic exercise (written work, printing, sculpture, computer program) that has been prepared totally or in part by another; acquiring improper knowledge of the contents of an exam; using unauthorized material during an exam; submitting the same paper in two different courses without the consent of your professors; or submitting or causing to be submitted a forged grade change slip.

If you have committed any act of academic misconduct as determined by the judgment of a faculty member or by the procedures of the Office of University Judiciaries, serious action—which may include failure of work undertaken, failure in the course, and formal disciplinary action, including suspension or expulsion—will be taken against you.

In cases of academic misconduct, a faculty member has the authority to administer a failing grade. If your course grade is lowered by an instructor who has accused you of plagiarism, you may appeal this grade first through the instructor, then the

department chair or school director, and then the dean of your college. If satisfaction is not achieved through this process, the dean will appoint a faculty committee of five members, including the chair or director of the department or school in question, to consider your case and render a decision. The decision of this committee is not subject to further appeal. The faculty member also has the discretion to refer your case to the director of judiciaries. The director of judiciaries, the University Hearing Board, and the University Appeal Board have the authority to take formal action that includes, but is not limited to, suspension or expulsion from the University. However, the director of judiciaries, the University Hearing Board, and the University Appeal Board have no authority to modify a grade given by a faculty member.

If you wish to appeal an action of University Judiciaries or the University Hearing Board, such as suspension or expulsion, you can take the matter to the University Appeal Board. Details of appeal procedures are included in the Student Handbook.

Further information on academic misconduct is available from the Office of University Judiciaries, telephone 740.593.2629.

### **Student Records Information**

#### **Student Records Policy**

Consistent with the Family Educational Rights and Privacy Act of 1974, all of Ohio University's policies and practices governing the collection, maintenance, review, and release of student records will be based upon the principles of confidentiality and your individual right to privacy. The specific policy is detailed in the Appendix of this catalog.

#### **Obtaining Transcripts**

Students may order official transcripts in one of the these types:

1. Comprehensive transcript, showing all coursework at Ohio University
2. Undergraduate transcript only
3. Graduate (master's and Ph.D.) transcript only
4. Medical transcript only

There is a \$5.00 per transcript fee for regular processing (generally 2–3 business days). There is a \$10.00 fee for each transcript processed on same day requested. The student is required to provide his/her signature authorizing

release of his/her transcript. Transcripts may be ordered by mail with a signed letter of request including payment by check or credit card or by signed FAX with payment by credit card or in person at the Registrar Service Windows. To find out more about the various processing, application, and delivery options available and to obtain a transcript request form, visit the Registrar Services Windows in Chubb Hall, go to the registrar's Web site at <http://www.ohio.edu/registrar/transcri.htm> or phone the Registrar's Office, 740.593.4206, or send e-mail to [transcripts@ohio.edu](mailto:transcripts@ohio.edu).

#### **Replacement of Diploma**

To obtain a replacement diploma, provide a notarized affidavit attesting that the original diploma has been lost or destroyed, or verification of a name change, to the registrar's office along with a request for a new diploma. In the case of a name change, you also must return the original diploma. Instructions for verifying a name change are available from the registrar's office. The fee for diploma replacement is \$15. Visit <http://www.ohio.edu/registrar/grd.htm> for more details.

The replacement diploma will carry current titles and signatures of University officers and the notation "official replacement." Allow four to six weeks for delivery.

# Graduation Requirements—University Wide

## Catalog of Entry

**The catalog in effect for the quarter in which the student first completes coursework at Ohio University becomes the student's University and Major Program Catalog of Entry. This catalog defines the University and college-level academic requirements you must complete and academic policies you must follow for the next five years.**

**If you change your major status or declare other majors before five years pass, the college of your new major may choose to place you under the then-current Major Program Catalog of Entry but leave you under the original University Catalog of Entry as this pertains to University-wide requirements. After five years from your initial registration, your college may choose to update either or both catalogs as they pertain to requirements for graduation. Offices responsible for enforcing other University policies, such as graduation with honor, for example, may apply the current University-wide policies to existing students after five years.**

Changes in either major or nonmajor requirements that are made necessary by altered or discontinued courses or by requirements imposed by external accrediting or certification agencies will be resolved on an individual basis by the dean of your college. Whenever possible, new requirements will be implemented with a beginning class or upon the expiration of the appropriate time limit.

Transfer students are governed by the same regulations.

## Requirements

Ohio University has two sets of graduation requirements: University-wide requirements, which all students must complete, and college-level requirements, which include the requirements for completing your major or minor. University-wide requirements are discussed in this section. Specific college-level and department-level requirements for majors and minors are explained under the appropriate college listing in the Colleges and Curricula section. (Some colleges or majors may require transfer students to take additional courses to meet specific major requirements.)

In general, you must have a minimum of 192 quarter hours of credit for a bachelor's degree, with all other requirements met. (Students who took coursework at Ohio University before fall 1977 can graduate with 180 hours

provided they have met all other requirements.) An associate's degree requires a minimum of 96 quarter hours.

No more than eight credit hours earned in developmental courses may be applied toward the total hours required for graduation. Developmental courses include CHEM 115, ENG 150, ENG 150A, MATH 101, MATH 102, PESS 100, and UC 110, 110A, 110B, 112, 112A, 112B, 114.

No more than 20 credit hours earned under the Pass/Fail grading option may be applied toward the total hours required for graduation.

The University recommends a minimum of 24 hours completed in the minor, and has no policy on the minimum requirements for a major. The specific requirements will be determined by your major (and minor, if you have one) department. You also must have a minimum g.p.a. of 2.0 (C) on all hours attempted (including work taken at another institution, if you are a transfer student) and in the major or equivalent as determined by your college. Your college may have additional g.p.a. requirements.

All baccalaureate students (except Honors Tutorial College students) also must complete Ohio University's General Education Requirements. Associate's degree students must complete the freshman English and quantitative skills requirements.

## Degree Audit Reporting System (DARS)

A DARS report is issued by your college's student services office/academic advisor each quarter prior to preregistration. This report includes your Registration Access Code (RAC) and your registration access time; you will need this information in order to register for classes. This report helps in determining requirements for graduation by showing progress toward completing those requirements. Reports are also available upon request at your college's student services office or regional campus student services office during other times. If you have questions concerning the DARS report, please contact your college's student services office or your regional campus student services office.

## General Education Requirements

Ohio University believes that, as an educated person, you need certain intellectual skills in order to participate effectively in society. These include the following:

The ability to communicate through the written word and the ability to use quantitative or symbolic reasoning.

Broad knowledge of the major fields of learning.

A capacity for evaluation and synthesis.

To help you meet these objectives, Ohio University has instituted a three-tiered General Education Requirement that all baccalaureate degree students (except those in Honors Tutorial College) must fulfill. Tier I course requirements build your quantitative and English composition skills; Tier II course requirements increase your breadth of knowledge; and the Tier III course requirement develops your ability to interrelate, synthesize, and integrate knowledge from different academic disciplines.

### Tier I Requirements

**Quantitative Skills.** You must demonstrate or acquire an acceptable level of quantitative skills to satisfy graduation requirements. A math placement test determines your skill level for placement or exemption unless the Tier I quantitative skills requirement has been satisfied by transfer or advanced placement



credit. (Students in some majors are required to take a math placement test regardless of transfer or advanced placement credit.) The choice of the course in which you enroll may depend on your major and should be discussed with your advisor.

Any Ohio University MATH course numbered 109 or above, PHIL 120, PSY 120, and PSY 221 satisfy the Tier I quantitative skills requirement (1M). To enroll in any MATH or other quantitative skills course, however, you must either place at the specific level required for that course or satisfy the appropriate prerequisites.

Placement levels are:

**DV1 and DV2 (Developmental):**

Indicate inadequate preparation to enroll in a Tier I-level course. You must complete MATH 101 (and/or 102 on regional campuses) before enrolling in a Level 1 course.

**PL1 (Placement Level 1):** Indicates preparation for any of the following Tier I-fulfilling courses: MATH 109; MATH 113; MATH 117, 118 (available only on regional campuses and through correspondence); MATH 120 (early childhood, middle childhood, and intervention specialist education majors only); MATH 147; PHIL 120; PSY 120.

**PL2 (Placement Level 2):** Indicates preparation for Level 1 courses as well as these additional Tier I-fulfilling courses: MATH 115 (recommended only for students who plan to enroll in MATH 263A or 266A), MATH 150, 163A, 250, and PSY 221.

**PL3 (Placement Level 3):** Demonstrates competence sufficient to fulfill the Tier I quantitative skills requirement. If your major requires that you enroll in a quantitative skills course, placement at Level 3 indicates preparation for MATH 263A, MATH 266A, and any course in Levels 1 or 2.

**English Composition.** A first-year composition course and an advanced junior-level composition course are required. Any English 151, 151A, 152, 153, 153A, or 153B will satisfy the University's General Education first-year writing requirement (1E). These courses are alternative, not sequential, courses in writing. You should select your course by looking at the descriptions and choosing the one that appeals to you. (All regional campus students are given a placement test.)

In your junior year, you must take an approved advanced writing course

unless you demonstrate advanced writing proficiency by passing the junior-level exemption exam. The following courses fulfill the junior-level composition requirement:

ART 300J	HLTH 370J
CLWR 385J	JOUR 441J
ENG 305J, 306J, 307J, or 308J	ML 321J or 370J
FILM 344J	POLS 305J
HCGE 345J	PRCM 325J
HIST	REC 370J
	301J or 396J

These courses are marked in the Courses of Instruction section of this catalog with the designation (1J) following the title and credit hours.

If you are a transfer student, your requirements are determined by when you enroll and the number and type of credit hours transferred.

**Tier II Requirements**

Students are required to complete a total of 30 credit hours from an approved list of courses in the following five distribution areas:

Applied Science and Technology (A)

Cross-Cultural Perspectives (C)

Humanities and Fine Arts (H)

Natural Sciences and Mathematics (N)

Social Sciences (S)

You are required to take at least four credit hours in four of the five areas and may satisfy no more than two of the required four areas with courses from the same department. You may satisfy no more than 12 of the 30 hours with courses from the same department.

You may apply one approved Tier II course in your major department or area of concentration (for B.S.S. students) toward partial fulfillment of the Tier II requirement.

Approved courses are marked in the Courses of Instruction section with (2A), (2C), (2H), (2N), or (2S) following the title and credit hours. The following courses fulfill the Tier II breadth of knowledge requirement:

**Applied Science and Technology (2A)**

Biological Sciences 220, 221, 222

Chemical Engineering 331

Chemistry and Biochemistry 101

Communication Systems Management 101

Computer Science 230

Electrical Engineering 101

Engineering and Technology 280, 320, 350, 470

Environmental Health 260

Environmental and Plant Biology 103, 160

Geography 201, 260

Geological Sciences 170, 215, 231

Health Sciences 202

Hearing, Speech, and Language Sciences 108

Human and Consumer Sciences—Food and Nutrition 128

Industrial Technology 110

Mechanical Engineering 100

Cross-Cultural Perspectives (2C)

Anthropology 101, 202

Art History 214, 330, 331

Classics and World Religions 311, 321, 331

Dance 351, 352, 353

English 331, 332, 333

Foreign Languages and Literatures  
*Chinese* 211, 212, 213

*French* 211, 212, 213

*German* 211, 212, 213

*Indonesian/Malaysian* 211, 212, 213

*Italian* 211, 212, 213

*Japanese* 211, 212, 213, 252x, 253x

*Japanese Culture* 250

*Russian* 211, 212, 213

*Spanish* 211, 212, 213, 349

*Swahili* 211, 212, 213

Geography 131

History 132, 133, 246, 323A8C, 335AB, 341ABC, 345ABC

International Studies 103, 113, 118, 121

Political Science 340

Humanities and Fine Arts (2H)

African American Studies 110, 150, 210, 211, 250, 350

Art 110

Art History 211, 212, 213

Classics and World Religions 181, 301, 302

Communication Studies 101

Dance 170, 171, 271, 471, 472, 473

English 200, 204, 205, 206

Film 201, 202, 203

Foreign Languages and Literatures  
*Classics in English* 127, 231, 234, 235, 236, 237, 252, 253, 254, 255  
*Greek* 211, 212, 213



International Literature: *Modern Languages* 335, 336, 337, 338AB  
*Latin* 211, 212, 213

History 121, 122, 123

Humanities 107, 108, 109, 117

Interdisciplinary Arts 117, 118, 211, 212, 213, 270, 271, 272

Music 100, 120, 125

Philosophy 101, 130, 216, 232, 240, 260, 310, 311, 312, 314

Theater 170, 270, 271, 272

Women's Studies 100

**Natural Sciences and Mathematics (2N)**

Anthropology 201

Astronomy 100, 100D

Biological Sciences 100, 103, 170, 171, 172, 173, 202, 225, 275; and 130, 131 (Chillicothe, Lancaster, and Zanesville campuses only); and 201 (Chillicothe and Zanesville campuses only)

Biology 101

Chemistry and Biochemistry 121, 122, 123, 151, 152, 153

Environmental and Plant Biology 100, 100L, 102, 109, 111, 114, 115, 209

Geography 101, 202

Geological Sciences 101, 120, 130, 211, 221

Mathematics 163AB, 263A8C, 266A8

Physical Science 100, 100D, 101, 101L, 105, 105L, 131, 140, 200, 205; and 121/121L, 122/122L, 123/123L (regional campuses only)

Physics 201, 202, 203, 251, 252, 253, 262

**Social Sciences (2S)**

African American Studies 101, 202

Classical Archaeology 211, 212, 213

Communication Studies 351, 352, 353

Economics 103, 104, 240

Geography 121, 132

History 101, 102, 103, 200, 201, 315A

Human and Consumer Sciences—Child and Family Studies 160

Human and Consumer Sciences—Retail Merchandising 250

Journalism 105

Linguistics 270

Management 202

Political Science 101, 102, 103, 150, 210, 230, 250, 270, 331

Psychology 101

Social Work 101

Sociology 101, 201

Telecommunications 105

### **Tier III Requirement**

Students are required to take one Tier III interdisciplinary course after attaining senior rank (135 hours). A complete list of Tier III courses is available under the heading Tier III in the Courses of Instruction section.

## **Residence Requirements for Graduation**

Like most universities, Ohio University requires that you be "in residence" for a certain number of credit hours in order to graduate. Some colleges have additional residence requirements, so check with your advisor or dean's office to make certain that all requirements are being met.

Residence credit is defined as any credit earned by regular enrollment at Ohio University on the Athens campus or any regional campus or by Ohio University Education Abroad, any approved student teaching, by the Independent and Distance Learning Programs in the Division of Lifelong Learning, or any combination of these options.

### **Bachelor's Degree**

If you have completed fewer than 96 quarter hours at Ohio University, the minimum requirement is to be in residence your final three quarters, with 48 hours of resident credit as defined above. If you have completed 96 or more quarter hours at Ohio University, the final quarter (16 hours) shall be in residence with resident credit as defined above.

If you begin graduate study at Ohio University before completing all requirements for a bachelor's degree, your residence requirement will be reduced by as many hours as credit hours of graduate work completed. The number of hours subtracted also will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence credits used for meeting requirements for one or more bachelor's degrees may not also be used for meeting the residence requirements for the graduate degree.

The residence requirements apply even if you have been approved for graduation in absentia and are completing your last year in an

accredited institution, except that the regulations apply to residence before you leave the University. (See the In Absentia section.)

### **Associate's Degree**

If you are completing an associate's degree, you must earn at least 30 quarter hours of residence credit at Ohio University. Moreover, if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least eight of your final 15 hours as residence credit as defined at the beginning of this section.

## **In Absentia**

To be considered for *in absentia* status, you must obtain permission from the student services office of your college. If you have been approved for the senior-*in absentia* privilege, you must complete a full year's work in an Ohio University-approved professional school and be eligible for advancement without condition to the second year to obtain your bachelor's degree *in absentia*. *In absentia* programs involve preplanned curricula and cannot be arranged on an ad hoc basis. The *in absentia* privilege does not apply to graduate degree programs.

The official transcript from the school you attend must be submitted to the Office of Admissions, Chubb Hall 120, Ohio University, before the degree conferral date.

## **Second Bachelor's Degree**

If you plan to earn two bachelor's degrees, you may meet the requirements either simultaneously or successively:

- 1 To complete requirements for two degrees conferred on the same date, you must meet the requirements for both degrees and must have completed a total of 13 quarters of college work or its equivalent (208 hours), with a minimum of five quarters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, you must declare a major program in both colleges and meet the residence requirement the quarter in which the degrees are to be conferred.
- 2 If you have met the requirements for two degrees as stated above and want to have the degrees

conferred in successive quarters, you may do so without further credit or residence. For example, one degree may be conferred at the end of one quarter and application made for the second degree in a subsequent quarter.

- 3 If you want to take a second bachelor's degree after receiving the first, you must complete the requirements for the second degree and meet the residence requirement in the college offering the second degree. (See individual college requirements in the Colleges and Curricula section).

### Second Associate's Degrees

You cannot earn the same associate's degree twice. Furthermore, you are not permitted to earn both the A.A. and A.S. degrees. If you have already earned the A.I.S. degree, you are not permitted to earn either the A.A. or A.S. degree. Although it is possible to complete an A.A.B. or A.A.S. degree with a double major, you can earn the degree only once.

## Graduation Procedures

### Application

Candidates for graduation must make application and pay the application fee no later than the deadline listed in the academic calendar for the quarter in which graduation is planned. You may apply online at <http://www.ohio.edu/registrar/> or receive assistance at the Registrar Services Windows, First Floor, Chubb Hall or at your regional campus student services office. Questions about applying for graduation can be directed to [graduation@ohio.edu](mailto:graduation@ohio.edu). This application initiates the process that informs your college to check for fulfillment of degree requirements. The process culminates with the entry of the college, major, other concentrations (such as minor, dual certification in education, etc.), degree, and date of granting the degree on your permanent academic record. At the end of this process, your graduation g.p.a., class rank, and eligibility for honors are determined. They then cannot be changed by completing additional coursework or retaking classes, although taking additional classes will affect your accumulative grade point average.

The application fee for all degrees

is \$50. If you fail to meet the requirements for graduation, you may reapply for the quarter in which you plan to complete the requirements. The fee for reapplication is \$5.

### Graduation with Honor

The g.p.a. requirements for graduation with honor are: *cum laude* (with honor), 3.5 to 3.749; *magna cum laude* (with high honor), 3.75 to 3.899; and *summa cum laude* (with highest honor), 3.9 to 4.0. The Latin honors notation will appear on your diploma and in the commencement program.

To be eligible for graduation with honor, you must complete a minimum of 48 hours of coursework with letter grades that affect your g.p.a. in residence at Ohio University. Successful completion of a special honors program of study is noted in the Commencement program and on your diploma. Graduation with honor does not apply to associate's or graduate degrees.

### Commencement Ceremony

If you are a candidate for spring quarter graduation, or if you have earned your degree during the preceding summer, fall, or winter quarters, you are eligible to attend Commencement, held at the end of spring quarter.

Details concerning Commencement will be sent to you after you have officially applied for graduation, provided you indicate your intention to attend the commencement ceremony at the time you submit your graduation application.

Commencement information is available online at <http://www.ohio.edu/publicoccasions/>. Direct any questions concerning Commencement to the Office of Public Occasions, 740.593.1761.

## University-Wide Academic Opportunities

### Community Service Programs

Community Service Programs give you the chance to make a difference in the world around you—and, in the process, to make a difference in yourself. The Center for Community Service, located in Baker Center 033, can help you find the right community service opportunity. Programs include volunteer referral, national service, Community Service Federal Work-Study, service-learning, and student corps. Some offer career-related experience and academic credit.

### Departmental Honors Programs

Outstanding undergraduate students at Ohio University who are not students in the Honors Tutorial College may choose to earn departmental honors in their major. A thesis or project is required and, depending on the major, may be either an expository or creative piece of original work, the result of supervised research, or a collection of artistic endeavors. A departmental supervisor helps in the decision of an appropriate project and guides you toward completion of the thesis or project. Departments determine eligibility of students, and you should talk with the Honors Coordinator in the department about your interest in this program. To graduate with departmental honors, you must have satisfied the criteria required by your major department. You are advised to start planning this program as soon as possible.

### Office of Education Abroad

Ohio University is committed to encouraging and supporting undergraduate participation in international education programs. Consistent with Ohio University's mission statement, we believe that such experiences enhance the curriculum, deepen intellectual thought processes, enrich cross-cultural awareness, broaden perspectives, and

help prepare students to be competitive members in the global workforce.

Ohio University offers undergraduate students more than 65 institutionally sponsored programs, with study sites located on every continent. The Office of Education Abroad (OEA) assists in the administration of most Ohio University programs overseas, including registration and billing of participants. The OEA also maintains a resource library of material and references regarding education abroad opportunities. Through extensive advising, workshops, special sessions, and pre-departure orientations, the OEA helps to prepare students to undertake an education abroad experience.

Education abroad opportunities for undergraduates include study abroad—the traditional academic route to the overseas experience—which forms the core of education abroad programs. Such programs are generally faculty-led and involve a group of Ohio University students who take Ohio University credit courses abroad. Students receive an orientation on-campus prior to departure and usually travel together to their destination with a faculty program director. About 80 percent of our program participants are enrolled in these programs. In an effort to promote study abroad to students in every major and every academic rank, freshmen to seniors, Ohio University established its first International Study Abroad Center, the Ohio-Leipzig European Center, in cooperation with the University of Leipzig, Germany, in 2000. Plans are currently being made for a second center in China in fall 2004.

Another education abroad option is exchange student programs, based on reciprocal agreements with host institutions abroad. An Ohio University student trades places with a student from the foreign university, generally for a semester or academic year. Exchange student status is awarded to students on a competitive selection basis.

A third education abroad option is international internships, which provide students with practical experience through on-the-job training in their field, while simultaneously giving students the opportunity to experience a different culture and work environment.

Still more opportunities for undergraduate research abroad are being developed, particularly in the sciences. In such programs, students assist faculty

members conducting research in a particular discipline through field study and data collection.

Additionally, the service-learning program emphasizes involvement with and/or service to citizens of the host country, an experience often similar to the Peace Corps. Certain types of student teaching, social work, medical missions, and development-related activities are characteristic of this form of education abroad.

Finally, work and volunteer options, often offered in the summer, are becoming increasingly popular among undergraduate students.

For more information about these and other opportunities, visit our Web site at <http://www.ohio.edu/studyabroad/>, e-mail us at [education.abroad@ohio.edu](mailto:education.abroad@ohio.edu), or come to the Office of Education Abroad in Gordy Hall 107 (tel: 740.593.4583) during our walk-in advising hours, Monday–Friday, 1–4 p.m.

## Global Learning Community Certificate Program

The Global Learning Community (GLC) is an innovative program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, Engineering, and Business in an interdisciplinary 30 quarter-hour program on global issues, with a strong emphasis on real-world projects and problem-solving skills. The program has several distinctive features:

**Project-based learning.** GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on real-world problems and issues. Project-based learning challenges students to determine what they need to know to solve the problem, how they are going to find the information they need, and how they are going to apply it. Project-based learning also changes the role of faculty members; rather than providing the students with specific course content, faculty advise, consult, and provide feedback on all aspects of a project—from research and analysis to report writing and presentations.

**Learning community.** The GLC is housed in Bromley Hall. Students enter the GLC in fall quarter of their sophomore or junior year. Sophomores

spend their sophomore year in residence; residency is an option for entering juniors and second year GLC students. Faculty join students for meals, cultural events, and other activities. The purpose of the residential plan is to build a living and learning community that combines the professional and social spheres and fosters teamwork; in such a community, students working in teams on projects should come to regard each other as colleagues with a shared mission.

International experiences. Each GLC student completes at least two international and cross-cultural projects. First year GLC students undertake consulting projects, working in bi-national teams with students from an overseas university (the GLC has worked in Hungary, Ecuador, the Czech Republic, Thailand, and Mexico). After the first year, students do an internship overseas or complete a second study abroad program.

Students apply for admission in their freshman or sophomore year. All standard financial aid programs apply.

Plan of study. The program consists of eight projects and an international internship or second study abroad program, taken over two years in the following sequence:

### Sophomore Year

Fall	GLC 201, 202	(8 hours)
Winter	GLC 203, 204	(8 hours)
Spring	GLC 205	(2 hours)

### Junior Year

Fall	GLC 301	(4 hours)
Winter	GLC 302	(4 hours)
Spring	GLC 303	(4 hours)

The internship (GLC 400, 0-6 hours) may be taken at any time after the first year in the GLC program. GLC courses count toward specialization or distribution requirements for most majors.

**Other requirements.** Students are required to demonstrate competency in a modern language to the 213 level (or equivalent) by the time they graduate.

For more information, call 740.597.2794, visit our Web site at <http://www.ohio.edu/glc/> or reach us by e-mail at [glc@ohio.edu](mailto:glc@ohio.edu)

## Learning Communities

### First-Year Learning Communities.

Learning communities allow all first-year students the opportunity to have the benefits of a small college atmosphere while providing the benefits of Ohio University's large campus culture. Participation in a learning community guarantees students 2–3 common freshman courses for fall quarter.

The purpose of the Learning Communities is to help first-year students get a deeper understanding of course material, assist in the integration of the material, increase interaction and communication between students and faculty, increase involvement and a feeling of community, ease transition, increase retention, and result in a holistic college learning experience. Ohio University currently has three learning community options for incoming first-year students: Linked Courses, Residential Learning Communities, and Non-Residential Learning Communities.

**Linked courses** are sponsored through University College's Center for Writing Excellence & Writing Across the Curriculum Program and the Department of English. In Linked Courses a group of twenty students take two courses together. One course is English 151, other courses are general education lecture courses such as Economics 103. Visit the Linked Course Web site at [http://www.ohio.edu/writing/paired\\_linked\\_courses.htm](http://www.ohio.edu/writing/paired_linked_courses.htm) or ask your Precollege advisor more about this option if you are interested.

The Residential Learning Community (RLC) is a conscious curricular structure that allows for groups of twenty first-year students to live in selected residence halls across campus and take 2–3 common freshman courses, including a freshman introductory course. The Freshman Introductory Course is the hub of the community, which revolves around a theme and is taught by your Resident Director. Both, the Resident Director and a Peer Mentor will assist you in adjusting to college life as well as guide you through the exploration of what Ohio University has to offer. Out-of-class activities and study sessions are integrated in the RLCs.

Opportunities to be involved in a college-based RLC are available on a limited basis. Participating colleges will send information regarding RLCs directly to the students. Regardless of your major, there is a RLC designed to meet your interests. An information session and registration for an RLC will take place during Precollege, ask your advisor for more information. You are not registered for the cluster of courses until that time.

### Non-Residential Learning Communities

allow students to have the benefits of a small college atmosphere while providing the opportunities of Ohio University's large campus culture. These communities are designed around clusters of linked first-year courses tailored to a specific topic or major. Groups of 20–25 students are co-enrolled into 3–4 courses. Participating students can be housed in the residence hall of their choice.

Opportunities to be involved in a college-based Non-Residential Learning Community are available on a first come first serve basis. Participating colleges will send information regarding these learning communities will be sent directly to the students.

For more information please visit our Web site at <http://www.ohiou.edu/rlc/> or contact:

Coordinator of Learning Communities  
University College  
Ohio University, Chubb Hall 140  
740.593.1935  
E-mail: [rlc@www.ohio.edu](mailto:rlc@www.ohio.edu)

## Office of Nationally Competitive Awards

The Office of Nationally Competitive Awards (ONCA) assists Ohio University students with virtually all facets of applying for some of the most prestigious awards available to undergraduates. This includes, but is not limited to, such impressive and competitive awards as the Rhodes, Marshall, Truman, Udall, and Goldwater Scholarships.

Services offered include providing specific information about scholarships and awards; mentoring and counseling students about their particular situations and candidacies, assisting with the application processes, and organizing seminars and supportive programs for students. Most national awards are merit based and extremely

competitive. To be considered viable candidates, students should have at least a 3.7 GPA and be actively involved in both their studies and extracurricular activities.

ONCA is located at 35 Park Place. Call 597-1632 for more information or visit their Web site: <http://www.ohio.edu/onca/>

## Provost's Undergraduate Research Fund

The Provost's Undergraduate Research Fund provides annual grants of up to \$1,500 each to support the research projects, creative projects, and scholarly work of undergraduate students. To be eligible, students must be enrolled full time on the Athens campus and must be endorsed by a tenure-track faculty member. Grants may be used for research related materials, supplies, and travel. The fund is administered through the office of the assistant dean in the Honors Tutorial College. Guidelines and an application form are available on the Web: <http://www.ouhtc.org/>.

# Services for Students

## Academic Advancement Center

The Academic Advancement Center (AAC) helps you develop the skills and attitudes necessary for your academic success. The center, a department of University College serving undergraduates from across campus, provides a variety of support services.

**Courses.** You may enroll in credit courses taught by the AAC staff. UC 106, Academic Computing Skills, is a one-credit course designed to enhance computer skills required in many academic endeavors, such as the Microsoft Office suite of programs, research on the Web, and using e-mail for academic purposes. UC 110, Learning Strategies, is a three-credit course designed to teach effective study strategies you can use, like remembering textbook material, note taking, managing time, and preparing for exams. UC 112, College Reading Skills, is a two-credit course designed to improve your reading comprehension of college-level material. You will learn an effective approach to reading textbooks, adjusting your reading rate, and mastering new vocabulary. UC 112B, a one-credit speed-reading and vocabulary course, is available for good readers seeking even higher proficiency in reading. The class is five weeks in length. Individual reading assistance is provided free on a non-credit appointment basis to any student requesting assistance. (See Courses of Instruction section for descriptions of additional UC Courses.)

**Tutoring.** Individual tutoring is available for skill development and for mastery of course content. Our staff will work with you on reading and study skills, free of charge, or you may benefit from using computer programs on these topics in the AAC Computer Lab. You also may request a referral to a private content tutor, whom you will be expected to pay directly. In most areas, tutors are readily available; in all cases, we will do our best to connect you with a qualified tutor. Requests for tutors may be made through the AAC Web site at <http://www.ohio.edu/aac/tutoring/>.

**Supplemental Instruction (SI).** SI provides free study sessions several times a week for selected courses. The sessions are conducted by undergraduates who attend the class and work with the professor to help students share and master information. The sessions are open to anyone enrolled in the selected courses. The courses selected for SI are usually courses with high enrollments and high rates of poor performance or failure. If a class is selected for SI, the Leader is introduced during class. The Leader also will announce the SI session schedule during the class. In addition to listening for announcements in the class, students may access the SI sessions schedule online at <http://www.ohio.edu/aac/supins/>.

**Computer Skills.** The AAC Computer Lab, located on the first floor of Alden Library, is a modern multi-media facility equipped with both Macintosh and Windows computers, scanners, a digital camera, zip drives, CD-R/RW and DVD burners, and various supporting software from Adobe, Macromedia, and Microsoft. Skilled computer assistants are available for one-on-one help with the lab's various computer software and hardware. For more information regarding hardware, software, and open hours, visit the AAC lab Web site at <http://www.ohio.edu/aac/lab/>.

**College Adjustment Program (CAP).** CAP, which operates under a U.S. Department of Education grant, helps new students adjust to and graduate from college. CAP is open to students who meet federal eligibility requirements. Read more about CAP, including eligibility requirements, in the University College section.

You may contact the Academic Advancement Center to learn more about its programs and services. Please call 740.593.2644, fax 740.593.0338, visit our Web site <http://www.ohio.edu/aac/> or e-mail to [aac@ohio.edu](mailto:aac@ohio.edu), or come to the center on the first floor of Alden Library.

## Career Services

The Office of Career Services provides assistance with making career decisions, exploring major and career options, attending career fairs, and conducting effective job searches. Services, which are free to all students and alumni, include:

- 1 individual career advising on issues such as major, career options, résumé and cover letter writing/critiques, attending graduate school, and job search strategies.
- 2 computerized career guidance programs that identify interests, abilities, and values.
- 3 seminars on résumé preparation, basic and advanced interviewing techniques, job search strategies, planning for graduate school, exploring major and career options, and other career-related topics.
- 4 the Mock Interview Program which allows you to practice and improve your interview performance.
- 5 career fairs that bring a variety of employers to campus to discuss career opportunities. Career fairs, open to all students and alumni, are held in October and February. The Teacher Recruitment Consortium is held Spring Quarter.
- 6 the Career Resource Center which contains a wealth of information: career guides, employer directories, graduate school guides and admissions test bulletins, internships and summer job listings, employer literature, and professional job vacancies.
- 7 the Career Services web site not only provides you with general career information but can connect you with a range of other resources on the Internet. It is linked to the Ohio University home page under "Employment" or can be reached at <http://www.ohio.edu/careers/>.

## Services for Graduating Students and Alumni

The office also offers the Bobcat Online Job Search Program for graduating students and alumni. This program consists of three services: computerized résumé referral, online job postings, and on-campus interviewing. To be eligible for this program, you must register with the office by attending a registration orientation session that explains services and procedures, paying a nominal fee, and completing required materials.

You are encouraged to work with Career Services throughout your University experience for assistance in all career-related matters. For more information, call 740.593.2909.

## Communication Network Services

Ohio University Communication Network Services (CNS) provides telephone, data and video communications, comprehensive desktop computer technical support, ID card services, and audio-visual equipment maintenance for the University community.

Desktop computer technical support can be obtained by calling the Support Center at 593-1222, by sending e-mail to [helpdesk@ohio.edu](mailto:helpdesk@ohio.edu), or by visiting the CNS Web site at <http://www.cns.ohio.edu/>. Networking supplies such as Ethernet cards, cables, and mini-hubs are available at the CNS office, HDL Center 301.

## Computer Services

Computer Services provides state-of-the-art computing resources and facilities to Ohio University students. The main offices for Computer Services are in the Computer Service Center.

### Computer Labs

Lab computers can be used to access the Internet and various software programs. For specific software located in the computer labs visit, <http://www.ohio.edu/cts/lab.html#Win/>. Lab locations include Computer Services Center, Boyd Hall, and Brown Hall. In addition, a combined Library/Computer Services' "Learning Commons" computer lab will be available beginning fall quarter, 2004 on the second floor of Alden Library. Many departments also operate computing labs for their own students. Approximately 50 labs are available on campus—some labs are open to all majors, some labs are restricted to people within a certain major. All labs contain laser printers for high-quality output. Hours for the computer labs are posted there on a quarterly basis.

### Educational Testing Center

The Educational Testing Center is a computer based testing facility that offers numerous testing sessions per week. Available tests include the GMAT, GRE, Praxis I, and TOEFL. For a complete listing of tests, hours of operation, and other important information visit, <http://www.ohio.edu/>, etc.

## Software

Ohio University has several software site licenses that provide software to students. Visit <http://www.ohio.edu/software/> for more information, including eligibility, cost, and how to obtain the software.

## Counseling and Psychological Services

Counseling and psychological services are available on an individual and group basis for personal, educational, and career concerns. Confidential consultations are provided by a staff of counselors, psychologists, and trainees.

If you have personal problems of any kind (emotional, social, marital, substance abuse, stress, etc.), you can receive help in understanding and resolving those difficulties.

If you are having academic difficulties, you can receive help in understanding and resolving your concerns so that you may improve your performance.

If you are uncertain about your educational or career objectives, you can obtain assistance in appraising your abilities, interests, performance, etc., so that you may identify more appropriate and satisfying directions.

You can make an appointment to discuss your educational, career, or personal adjustment concerns by stopping by our offices on the third floor of Hudson Health Center (use the side entrance next to Voigt Hall and see the receptionist), or by calling 593-1616 between 8 a.m. and noon, and between 1 p.m. and 5 p.m. Monday through Friday.

## Disability Services

The Office for Institutional Equity is committed to assuring equality of opportunity and full participation at Ohio University for persons with disabilities. The Americans with Disabilities Act (ADA) defines disability as a physical or mental impairment that substantially limits one or more major life activities such as walking, seeing, hearing, performing manual tasks, or learning; a record of such impairment; or being regarded as having such an impairment. In addition to people who have visible disabilities, the definition includes people with a range of hidden disabilities. These include psychological conditions, learning disabilities, and

some chronic health conditions. Persons requiring reasonable accommodations for disabilities must provide documentation and register with the Office for Institutional Equity. The office provides guidelines for required documentation of a disability. All information concerning disabilities is confidential.

The Office for Institutional Equity has the primary responsibility for identifying and coordinating services to meet the particular needs of the person with a disability. General services include priority scheduling, information to faculty regarding academic accommodations, transportation assistance, tutoring and study skills assistance through the Academic Advancement Center, learning and study services including liaison with Recording for the Blind and Dyslexic, library assistance, and work-place and housing accommodations.

All students, regardless of disability, are subject to established academic requirements. Ohio University recognizes the need for reasonable accommodations to promote program accessibility. If you have a disability, contact the Office for Institutional Equity located in Crewson House to discuss your individual needs. Visit our Web site at <http://www.ohio.edu/equity/disabilityservices/>

## Environmental Health and Safety

Located in Hudson Health Center, Environmental Health and Safety provides environmental and occupational health, safety, and sanitation services to the campus community. We forge the vital link between a safe and healthy campus environment and the University mission through competent and dependable services. Programs are administered to ensure the health and safety of faculty, staff, students, and visitors. The department works to ensure compliance with fire authority, health department, OSHA, CDC, EPA, NRC, DOT, and other regulatory agency requirements. A multidisciplinary professional staff coordinates programs in environmental sanitation, food sanitation, pest control, radiation safety, occupational safety, ergonomics, indoor air quality, infectious waste, asbestos and lead abatement, environmental management, industrial

hygiene, fire safety, bio-safety, and hazardous materials management. Training programs are also conducted. For more information about the Department of EHS, visit our Web site: <http://www.ohio.edu/ehs/>.

## Health Service

The Student Health Service (SHS) is located in Hudson Health Center on the North Green (building 3S on the campus map). Medical care is provided 8 a.m. to 4:30 p.m. on all weekdays except Thursday, when the hours are 9 a.m. to 4:30 p.m. during fall, winter and spring quarters. You do not have to purchase the University insurance plan to receive services through SHS. All enrolled students have access to the SHS outpatient clinic.

Serving you are a pharmacy, a medical laboratory, x-ray facilities, immunization services, and a physical therapy department staffed by physicians, registered nurses, physical therapists, pharmacists, and registered laboratory and x-ray technicians.

International students must have a tuberculosis skin test upon first arriving in Athens or returning to the campus after an absence of two or more years. This test is given free of charge. See the Schedule of Classes for details.

Visit the SHS Web site at [http://www.ohio.edu/hudson/shs\\_page.html](http://www.ohio.edu/hudson/shs_page.html).

## Hearing, Speech and Language Clinic

The Ohio University Hearing, Speech and Language Clinic offers diagnostic and treatment services to University students, faculty, staff, and members of the community. Services are available to all age groups from infants to adults. A fee list is available upon request.

Speech and language services cover such areas as articulation, language, stuttering, and voice. Audiology services include the identification and management of problems in hearing and balance, including the selection and use of hearing aids, auditory processing, and developmental communication problems posed by hearing loss.

The clinic operates five days per week and is staffed by graduate students majoring in Hearing, Speech and Language Sciences under the continuous supervision of fully licensed and credentialed faculty and staff

For assistance with a hearing, speech or language question, inquire at the clinic office in Grover Center between 8 a.m. and 5 p.m., Monday through Friday, or call 593-1404. Clinic services are available throughout the year.

## Institutional Equity

It is the policy of Ohio University that there shall be no discrimination against any individual in educational or employment opportunities because of race, color, religion, age, national origin, sexual orientation, gender, veteran status, or disability. Also, there shall be no discrimination because of age, except in compliance with requirements of retirement plans or state and federal laws and guidelines.

The Office for Institutional Equity monitors hiring, promotion, and transfer of faculty and administrators; develops and implements programs and activities that give recognition to the value of diversity; coordinates services for disabled students and employees; advises students and employees about University policies and procedures regarding nondiscrimination; investigates complaints of discrimination; and seeks to foster a climate that encourages the full realization of the University's mission to promote a just and socially responsive community. If you have a concern about possible discrimination or harassment, you are encouraged to contact the Office for Institutional Equity. In coordinating services for people with disabilities, the Office for Institutional Equity can advise you about specific resources available at Ohio University. (See the Disability Services section for details.)

**Harassment Policy.** Harassment of students, staff, or faculty is not acceptable behavior at Ohio University. No male or female member of the Ohio University community including faculty, contract staff, classified staff, and students may harass any other member of the community. Many forms of harassment are discrimination under Title VII of the Civil Rights Act of 1964 and thereby illegal under law as well as a violation of Ohio University policy. Ohio University is committed to maintaining an environment in which every individual can work, study, and live without being harassed. Harassment may lead to sanctions up to and including termination of employment or student status.

Harassment is any conduct that has the intent or effect of unreasonably interfering with an individual's or group's educational, living, or work environment. Harassment includes conduct relating to race, color, gender, disability, religion and sexual orientation, age, national origin, or veteran status.

In addition, sexual harassment includes unwanted advances, requests for sexual favors, or other verbal or physical conduct of a sexual nature when:

- 1 Submission to such conduct is made either explicitly or implicitly a term or condition of employment or of a student's status in a course, program, or activity.
- 2 Submission to or rejection of such conduct is used as the basis for decisions affecting the individual.
- 3 Such conduct has the purpose or effect of unreasonably interfering with the individual's work, performance, or educational experience or creating an intimidating, hostile, or offensive environment for work or learning.

Nonsexual verbal or physical conduct that denigrates or shows hostility toward another because of the person's gender can be the basis for a hostile, offensive, or intimidating environment claim. Gender-based conduct can take the form of abusive written or graphic material; epithets; sexist slurs; negative stereotyping; jokes; or threatening, intimidating, or hostile acts.

All Ohio University employees and students are responsible for compliance with this policy. All University supervisory personnel have an affirmative responsibility to discourage and eliminate conduct inconsistent with this policy. Complaints can be received and investigated only by employees who have been authorized by the institution. Authorization will be given only to individuals who have completed training provided by staff of the Office for Institutional Equity. Any individual who is not authorized but is approached about concerns or complaints regarding harassment **must** direct the complainant to an authorized employee. Because of their positions or the nature of their work, the following individuals, or their designees, shall have completed training and thereby be authorized to receive and investigate inquiries and



complaints: representatives of each major planning unit other than the unit head (the list is available at the Office for Institutional Equity and the Office of Legal Affairs and at <http://www.ohio.edu/Equity/IntakeReps.html>) and representatives from the Offices for Institutional Equity, Health Education and Wellness, University Judiciaries, Legal Affairs, Ombuds, and Human Resources. When authorized employees are contacted with a complaint, they must consult with the Office for Institutional Equity.

### Insurance, Major Medical

All domestic students registered for seven or more credit hours and international students registered for one or more credit hours are required to maintain a health insurance plan. To assist with this requirement, the University offers a major medical insurance plan designed to supplement the care provided by the Student Health Service.

Subject to the policy's benefits and exclusions, it provides protection against major medical and surgical expenses for the insured student at home, at school, or while traveling anywhere in the world. In addition to accident and sickness benefits, it includes repatriation, medical evacuation, and accidental death benefits.

All students are billed automatically for this plan. Domestic students may waive the insurance if they have another policy in force at the time they are enrolled. Only the International Student Services Office can approve an insurance waiver for an international student. Domestic students taking fewer than 7 hours, or any student participating in an internship program, co-op program, or completing a master's thesis or doctoral dissertation should contact the student insurance office in Hudson Health Center at 740.597.1816 about the availability of coverage.

If you are married or a single parent, coverage for your dependents is also available.

## Intercollegiate Athletics

### Mission Statement

*The Ohio University Department of Intercollegiate Athletics will provide an NCAA Division I-A athletics program committed to supporting the educational mission of the University. The department will strive to achieve excellence and victory within intercollegiate competition at the highest level with deference to a continued commitment to fairness and integrity.*

Ohio University is a Division IA member of the National Collegiate Athletic Association (NCAA) and a charter member of the Mid-American Conference (MAC). The conference, which was founded in 1946, also includes Akron, Ball State, Bowling Green, Buffalo, Central Florida, Central Michigan, Eastern Michigan, Kent, Marshall, Miami, Northern Illinois, Toledo, and Western Michigan.

The University fields a total of 20 intercollegiate teams—9 for men and 11 for women. The University offers baseball, basketball, cross country, football, golf, indoor track, swimming and diving, track, and wrestling for men. Basketball, cross country, field hockey, golf, indoor track, lacrosse, soccer, softball, swimming and diving, track, and volleyball are offered for women.

The Reese and Jacoby Trophies are awarded annually by the MAC to the institutions compiling the best overall conference records for men and women respectively. Ohio University won the 1995 Jacoby Trophy.

Athletic facilities include the 13,168-seat Convocation Center, the site of basketball, volleyball, and wrestling contests. Constructed in 1968, the building houses athletic offices, training facilities, locker rooms, and equipment rooms. Peden Stadium, with its five-story Tower and a capacity of 24,000, is the home of Bobcat Football and the Phillips Academic Services Center. The Aquatic Center contains an Olympic-sized pool, including sixteen 25-yard lanes, nine 50-meter lanes, and two one-meter and two three-meter diving boards. Soccer playing fields are located along Shafer Street, and the golf teams practice at the Athens Country Club. The baseball team competes at Bob Wren Stadium, while softball plays at a state-of-the-art facility. The \$2.1 million baseball/softball complex was completed in 1998. In November

of 1999, the 10,000-square foot Dr. Steve and Kathy Carin Strength and Conditioning Center was dedicated. The multi-purpose facility located in the Athletics Mall includes Pruitt Field and Goldsberry Track. Pruitt Field is the home competition site for field hockey and lacrosse, and the track teams compete on Goldsberry Track, an all-weather eight-lane track facility. Chessa Field, the home of Ohio Soccer, was dedicated in the Fall of 2002.

If you are interested in participating in intercollegiate athletics, contact the head coach of your preferred sport as soon as possible. Contact information can be found at the intercollegiate athletics Web site <http://www.ohiobobcats.com/>.

## International Students

Admission. Information on undergraduate admission for international students is available from the director of admissions, Chubb Hall. Information on graduate admission is available from the Office of Graduate Student Services, McKee House.

### Financial Aid

A very limited amount of financial aid is available for undergraduate international students. In no case does this cover more than a portion of tuition or other expenses. Entering international students are eligible to apply for awards based on academic promise; those already enrolled at Ohio University may apply for the same awards, and in addition, may request special aid in cases of demonstrated need. Contact the Office of Student Financial Aid and Scholarships.

### Associations

More than 20 internationally oriented student organizations exist at Ohio University, representing national, regional, religious, and social interests. They join together for special programs throughout the year. Programming reaches a high point in spring during International Week and the International Street Fair, conducted in cooperation with the City of Athens and the International Student Union.

### The International Student Union (ISU)

ISU functions at Ohio University as the umbrella organization for more than 20 international student organizations and serves as the programming body for the international community on campus. ISU members come from all



corners of the world, representing the collective educational, cultural, and developmental interests of more than 100 countries.

### **Athens Friends of International Students (AFIS)**

AFIS runs a hospitality program and an International and Community Women's Program, and, on a modest scale, matches international students with local American families. Visits may be only for a dinner or an afternoon excursion, but sometimes long friendships develop from this brief opportunity to gain insight into American home life.

The International and Community Women's Program brings together wives of foreign students on campus and interested wives of faculty and community people. It serves as a forum for ideas and information and offers a productive and easy way to participate in University life.

### **Ohio Program of Intensive English (OPIE)**

The OPIE administers English proficiency examinations to all new international students and provides intensive language instruction for those needing it. (See descriptions of courses and programs elsewhere in this catalog.)

### **The Office of International Student and Faculty Services**

The Office of International Student and Faculty Services offers consultation about any concern, including immigration, financial, and personal problems. All new students, as well as returning students starting a new degree program, must report to the advisor's office upon arrival. An orientation program will be conducted for a few days before the opening of each quarter to introduce new students to the campus.

The Office of International Student and Faculty Services also works with other departments and organizations on campus such as Residence Life, Student Life, International Studies, Phi Beta Delta, and the Fulbright Alumni Association to promote programs, such as cross-cultural awareness workshops, which create a supportive climate for international students.

### **International Family Program**

Support services are provided to international families through the Office of International Student and Faculty Services. Upon arrival, family members are given information about

health care and insurance, English language classes, community services, and social activities. International advisors are also available for consultation on immigration and employment relations.

## **Libraries**

The Ohio University Libraries are central to learning, teaching, and research activities of students and faculty. The main library on the Athens campus is Alden Library, located on the College Green. Other facilities include the Music/Dance Library in the Music Building, the Library Annex, and libraries at each of the regional campuses.

### **Staff**

The Alden Library staff of more than 120 information specialists organize and provide access to information of all kinds and assist and consult with library users in person and online. Each of Alden Library's seven floors has at least one service center, continuously staffed to help library users. Librarians also offer a variety of orientation and instructional programs to strengthen students' awareness and understanding of information resources and the research process.

### **Collections**

The Libraries' collections include more than 2 million printed volumes and over 100,000 electronic resources, including e-books, e-journals, databases, and image collections, available on the Internet. In addition, the collections of maps, microforms, photographs, videos, CDs, and other non-print items number nearly 3 million. The Libraries' Web site serves as a gateway to the print and electronic collections.

Ohio University students and faculty also have easy access to library materials from across the state through the Libraries' participation in OhioLINK, a consortium of academic libraries. OhioLINK offers over 31 million items for quick delivery from 83 other Ohio libraries. Through OCLC, an international network, and other partners, materials from other U.S. libraries and from around the world are readily available for research and study.

### **Services**

Alden Library is open 100 hours per week, with longer hours at the end of each quarter, before and during final exams. For those who use the library for reading and study, there are about

2,500 seats and, for group projects, a number of group study rooms.

Alden Library also offers computer workstations to access information resources, as well as other computing software licensed for student use. More than 200 workstations are available throughout the Library's seven floors.

The Library houses separate subject and special collections: Archives and Special Collections, Children's Collection, Fine Arts Library, Government Documents Department, Health Sciences Library, Instructional Media and Technology Services, Map Collection, Microforms and Non-print Collection, and the Center for International Collections.

### **Instructional Media and Technology Services (IMTS)**

IMTS, located on the second floor of Alden Library, provides audiovisual equipment and services to the entire University community. IMTS offers for lending more than 14,000 instructional video and DVD titles. Graphic production services, including research poster displays and digital AV and Web materials, are available upon faculty request. Audiovisual equipment such as projectors and recorders can be rented by registered campus student organizations.

For more information about the Ohio University Libraries, visit our World Wide Web site: <http://www.library.ohiou.edu/>.

## **Multicultural Programs**

The Office of Multicultural Programs seeks to provide a diverse range of programs and opportunities that are educational, recreational, social, and cultural. Committed to supporting and promoting multicultural awareness and appreciation, the staff develops programs that increase understanding and appreciation of cultural differences by familiarizing the campus community with the contributions and histories of African American, Hispanic/Latino, Asian/Pacific Islander, and Native American cultures. Other services include:

### **Programming**

The office plans and coordinates professional, educational, and cultural programs such as the annual Hispanic Heritage Month, American Indian Heritage Week, Kwanzaa Celebration,

Black History Month, Asian American Heritage Month, and the Mind, Body, and Soul Women's Conference.

### **Advising**

The Office of Multicultural Programs has formal advising relationships with the Black Student Cultural Programming Board (BSCP); and the Ohio University chapter of the National Pan-Hellenic Council (NPHC). The office maintains an informal advising relationship with ethnic student organizations such as the Native Peoples Awareness Coalition (NPAC), and Alpha Psi Lambda, the co-ed Hispanic-interest fraternity. All of these organizations plan programs and activities that benefit the entire University community.

### **Lindley Cultural Center**

The Lindley Cultural Center serves as a place where cultural teaching and learning is the focus of all programs and activities. Its focus is intercultural, and provides a place where members of the University community, representing a variety of backgrounds, participate in programs and activities. All programming in the Center is designed to increase human understanding through the study and expression of culture.

Housed on the ground floor of Lindley Hall, the center is comprised of 5 000 square feet of space including a community lounge, a large meeting room, an art gallery, a multipurpose room, computer lab, and office spaces for staff and students.

Activities include art exhibits, musical and literary presentations, organizational meetings, workshops, lectures, discussions, and leadership development and training activities.

## **Office of the University Ombuds**

The role of the Ombuds is to facilitate fair and equitable treatment of students, faculty, and staff within the University system. The Ombuds office can make inquiries on your behalf, help you make an informed response to your situation, mediate or facilitate discussions, and make recommendations for procedural or policy change. Complaints and grievances brought to the Ombuds are handled with confidentiality. The office seeks informal resolution of issues and can also provide advice on formal University grievance procedures.

## **Parking/Motor Vehicle Registration**

On-campus resident parking is available on a limited basis for students with sophomore status or higher. Freshmen living on campus are not permitted to purchase parking. Commuter parking is available to all students who live outside a certain radius of campus. More information can be obtained at the Parking Services Web site: <http://www.facilities.ohiou.edu/parking/> or by stopping by Parking Services located at 100 Factory Street, or by calling 740.593.1917. If interested in garage parking, please contact the Housing Office at Chubb Hall or call 740.593.4090.

Before students can drive or park on Ohio University property, they must register their vehicle with Parking Services. Failure to register a motor vehicle or parking illegally makes the violator subject to penalties as printed on the violation/citation. Motorcycle parking is restricted to specifically designated areas. There is no charge to register vehicles.

Parking maps are also available free of charge at Parking Services.

CATCAB is a free service designed to transport students, faculty, and staff with permanent or temporary mobility limitations. Users of this service are asked to pre-schedule for transports to classes and other campus functions. CATCAB is available 7:45 a.m. to 7:30 p.m. Monday through Friday. Schedules and other information regarding the use of CATCAB can be obtained by calling 597-1909.

## **University Police**

The Ohio University Police Department (OUPD) is a full-service professional law enforcement agency, with uniformed police officer patrols throughout the campus community 24-hours a day, 365 days a year. Ohio University Police Officers patrol on foot, in marked cruisers, and on bicycle. Having a full-time law enforcement agency operating on campus allows uninterrupted safety and security, continuous customer service, and immediate response to emergency situations. The department's mission is to enhance the quality of life for our community through law enforcement, education, and a team approach to problem solving. The department is involved in many functions that assist with safety and security of the Ohio University campus and its students, staff, faculty, and visitors. Emergency "Blue Light" telephones have been installed on the main entrance of every residence hall as well as various locations throughout the University campus. Issues with safe and secure lighting are also monitored by the Ohio University Police Department. Students and others are encouraged to identify areas on campus they feel are not sufficiently lighted.

Department members provide and participate in educational programs designed to help educate University community members about their own safety and the safety of others.

The Campus Escort Service is a free service that offers students, staff, faculty, and visitors a safe ride every night from 8 p.m. to 1 a.m. Sunday through Thursday and 8 p.m. to 3 a.m. Friday and Saturday. During the winter quarter, the service starts at 7 p.m. Trained student employees who are in constant radio contact with the Ohio University Police operate the service. Call 593-4040 to arrange a ride. The Campus Escort Service serves the Ohio University campus and limited areas off campus.

In compliance with the Higher Education Act, the Jeanne Clery Disclosure of Campus Security Policy, and Campus Crime Statistics Act, the Ohio University Police releases a yearly report on campus safety and crime rates. For a copy of this report, contact the Ohio University Police at Scott Quad 135, telephone 740.593.1911, or visit the Web site at <http://www.ohio.edu/police/> and click on "Right to Know Reports."

## Campus Recreation

The Division of Campus Recreation, under the administration of the College of Health and Human Services, is committed to the health and wellness of the Ohio University community. A commitment is made to improve the quality of life by providing quality facilities and programs and ensuring customer satisfaction.

The division is composed of these facilities: Aquatic Center, Bird Ice Arena, Charles J. Ping Student Recreation Center, disc golf, driving range, Golf and Tennis Center, Outdoor Pursuits Rental Center and the Challenge Course. There are programs in club sports, fitness, intramural sports, and outdoor pursuits. These areas complement one another in providing students with facilities and programs to meet their recreational interests and also fulfill University goals by encouraging physical, emotional, and social growth.

The Aquatic Center features a long course indoor swimming pool that has two three-meter and two one-meter diving boards, an underwater observation area for viewing swimming and diving techniques, and a sun deck.

Bird Ice Arena is an indoor arena that features an illuminated 190-by-85-foot ice surface with fiberglass dasher boards. It provides skate rentals, lounge area, concession stand, and a pro shop.

The Ping Center is one of the largest campus recreational facilities in the country. The center offers a 36-foot high double-sided climbing wall, five basketball/volleyball courts, two multi-purpose gymnasiums, an elevated four-lane running track, eight racquetball courts (two convert to squash courts and four convert to wallyball courts), and a combative arts room. A small games area offers billiard tables, table tennis, air hockey, and foosball. The fitness area and free weight room provides users with a variety of cardiovascular and resistance training equipment, including equipment for physically challenged individuals. Spacious aerobics and combative arts rooms are also available. The lounge is furnished with sofas, chairs, chest tables, a 52" television, dance floor, and electronic mail stations.

The Golf and Tennis Center, located immediately next to the Ping Center, consists of a nine-hole Par 35 golf

course, putting greens, four indoor tennis courts, and six outdoor tennis courts. The indoor tennis courts are covered by a 40-foot tent structure, allowing players to compete in state-of-the-art playing conditions. The clubhouse offers golf and tennis equipment rentals, golf cart rental, racquet restringing, private lessons, concessions, and resale items.

The illuminated 300-yard driving range is located on West State Street and can accommodate approximately 30 drivers.

Located at the Golf and Tennis Center, the nine-hole disc golf course is played similar to traditional golf except that players attempt to land a Frisbee-type disc into an elevated metal basket that serves as a catcher. Individual discs or sets may be purchased at the center.

The Outdoor Pursuits Program provides opportunities for outdoor adventure sports and activities. It offers various outdoor trips, gear rental, outdoor clinics, outdoor climbing tower, challenge course, and a climbing wall. The Outdoor Pursuits Program is housed in the Ping Center.

The Outdoor Pursuits Rental and Sales Center offers for rental or sale outdoor equipment such as canoes, backpacking, camping, tents, coolers, sports equipment, and scuba equipment. The center is located outside the east wing of the Ping Center, next to the loading dock.

The Challenge Course, also known as a ropes course, is a fun and exciting way to work towards various goals with a group. Through a variety of elements and team-building activities, the course takes participants to new heights. Composed of a low course and a high course, participants utilize their physical and mental strengths to reach individual and group goals. The Challenge Course is available on a private rental basis to groups of 10-15. Students, faculty/ staff, alumni, and the community are welcome.

The Ping Center, Aquatic Center, and the Golf and Tennis Center, open year round, are available to students, faculty, staff, and alumni. The Golf and Tennis Center is also available to the community. The Aquatic Center is open to the community during lap and recreational swim times; the Ping Center is available to the community on special weekend events and as guests of students, faculty, staff, and

alumni. Bird Arena and driving range operations are seasonal and open to students, faculty, staff, alumni, and the community.

The division administers the 30 recognized club sports on campus. Each club is run by students and establishes an organizational framework, leadership, and a schedule to meet the needs of its members. New clubs can be organized if they meet the needs of the University community. Many of the outdoor club sport activities take place on the south green club sports fields, the Stimson Avenue club sports fields, and the West State Street club sports fields. Use of these fields is by reservation only.

The Fitness Program offers diverse program opportunities, including fitness sessions ranging from traditional Step and Hi/Lo to Cardio Kick. Mind/Body sessions offer exciting activities such as Yoga and Pilates®. Personal fitness training and fitness assessments also are available. A registered dietician is on staff to provide nutritional services. Two licensed massage therapists offer 30- and 60-minute massages.

The Intramural Sports Program offers a diverse set of structured activities for students, faculty, and staff. The program offers individual, dual, and team sports for men, women, and coed teams. Team activities include baseball, basketball, bowling, broomball, flag football, floor hockey, indoor soccer, sand volleyball, outdoor soccer, softball, volleyball, and wallyball. Team sports activities are scheduled in leagues, which play during the afternoons and evenings. Individual and dual activities are offered for air hockey, badminton, bench press, billiards, cross country, darts, disc golf, foosball, horseshoes, racquetball, squash, table tennis, tennis, and wrestling. Individual and dual activities may be scheduled events or are scheduled to fit the availability of the participants.

The division also offers recreational special events throughout the year. For more information on facilities and programs, call 740.597.CREC or visit our Web site at <http://www.ohio.edu/recreation/>.

## University Registrar

The Office of the University Registrar provides a wide range of services to the academic community. The mission is to provide these services in an efficient manner that allows students and other members of the academic community to use the services with minimum difficulty and maximum satisfaction. A guiding principle is always to respond to legitimate requests for information or services as quickly and accurately as possible. When the requested information or service is not the responsibility of the office, then the principle is to help the student, faculty/staff member learn how to get the help they need. This is done always within the spirit of the University's policies and standards, helping those we serve get what they have a right to expect and understand what they do not have a right to expect.

Many services are available online at <http://www.ohio.edu/registrar/>. Services for students include registration, schedule of classes, grade reports, address update, class schedules, and graduation application. Faculty may obtain class lists and advisee lists and use these tools to communicate with their students. Other services provided by the Office of the University Registrar include transcripts, classroom scheduling, veterans educational benefits, degree and enrollment verification, re-enrollment processing, and maintenance of student personal information (address, phone, name, etc.).

The office is open 9 a.m. to 5 p.m. Monday, and 8 a.m. to 5 p.m. Tuesday–Friday. (Summer and winter break hours vary according to University policy.) Visit the Registrar Services Windows, first floor lobby, Chubb Hall; call 740.593.4191; or e-mail [registrar@ohio.edu](mailto:registrar@ohio.edu).

## Residence Life

The Department of Residence Life supports the educational goals of the University in the residence halls. The staff promotes community living, fosters the development of individuals and groups within the living environment, and provides support and information to residents.

Residence life offices are located on each green (East, South, and West). A central office is located on the College Green.

Each green has full-time professional and paraprofessional live-in staff that has been carefully selected and trained to offer informed and meaningful assistance. The staff-to-student ratio in upperclass halls is about 1:35, while in freshman halls it is 1:26. The department also coordinates a student security aide program.

Services offered by this department include providing a safe and healthful environment conducive to sound academic pursuit; creating opportunities for growth and development through educational, recreational, social, and cultural programming; involving faculty in the residence halls as faculty associates and resource people; meeting the needs of students through the use of special-interest housing (intensive study, residential learning communities, honors, scholars, academic emphasis); promoting student involvement and leadership by encouraging participation in hall government; emphasizing the concepts of responsibility, respect, and consideration for others; interpreting University policies and procedures; serving as an information source and referral agent to other University services; and providing confidential personal advising for such concerns as adjustment, academic performance, substance abuse, and relationships.

Much of the learning that occurs during the collegiate experience takes place outside the formal classroom setting. The living-learning atmosphere of the residence hall is one of the prime catalysts in this growth process. While each residence hall is unique in character and spirit, they all offer the opportunity to meet, interact with, and learn from a diverse student population.

## Residence Services

Residence Services administers all room and board charges and oversees the apartment complexes for graduate students, married students, and students with families.

### Housing Regulation

If you have fewer than 90 undergraduate earned credit hours, or have lived on campus less than two academic

years (six quarters) you must reside in University-owned housing and participate in the associated mandatory meal plan. Before the beginning of each fall quarter, your hours and time in residence on campus will be counted. If you do not have 90 credit hours or two academic years in residence before the beginning of fall quarter, **you will be required to live in University-owned housing and have a food service plan for the following academic year.**

Credit hours earned by students while attending high school (via advanced placement, Senate Bill 140, etc.) will not be considered toward exemption eligibility from the housing requirement. The contract for residence and dining services is binding for the entire academic year. If you don't comply with this regulation, you may be denied registration or your registration may be canceled.

Transfer students should contact the Office of Admissions to determine their earned-hour status. Relocating and re-enrolling students should contact the registrar's office.

### Housing Regulation Exemptions

If you meet any of the following conditions, you may request (in writing) that you be exempt from the housing regulation. Falsification of any material submitted in support of an exemption request is a violation of the Student Code of Conduct and may result in a referral to University Judiciaries.

- 1 You are enrolled as a part-time (11 credit hours or less) student as defined in this catalog.
- 2 You are a married student living with your spouse or a single parent living with your children within commuting distance of the University.
- 3 You live with parents or guardians whose permanent residence is within commuting distance of the University.
- 4 You have 45 or more earned credit hours or one academic year (three quarters) in residence and are living in a recognized fraternity or sorority house. (This exemption is not available to continuing students once the academic year begins.)
- 5 You are a veteran who has 18 or more months of active military service.

### Special Students

All special students (students taking classes during the summer, Ohio Program of Intensive English students, etc.) must comply with the housing regulation. If you are not sure of your status, contact Residence Services.

Note: Continuing students with 90 or more hours of undergraduate credit earned or two years in residence at the beginning of the fall quarter and new students with 90 or more credit hours and two years in residence may reside in off-campus housing. The University bears no responsibility for the living conditions or problems arising therein to either the home-owner or the student resident.

### Student Activities

The Office of Student Activities (OSA) is your connection to campus and community involvement—the place where you can discover everything you want to know about student organizations, campus programs, fraternity and sorority life, and leadership development. If you want to get involved in campus life, stop by our office in Baker University Center 204, call 740.593.4025, or visit our Web site at <http://www.ohio.edu/stuactivities/>

#### Campus Programs

OSA manages a variety of programs and lets everyone know about campus events. We advise University Program Council (UPC), help to coordinate special event weekends, and supply event information to the University community. UPC brings cultural, social, educational, and entertainment programs to the University in collaboration with the International Student Union (ISU), the Black Student Cultural Programming Board (BSCP), and the Residence Action Council (tRAC). In addition to enjoying UPC's events, you can become involved with the UPC Street Team whose members help promote events and serve as the pulse of the group. A four-credit class, Program and Event Planning (EDCP 400), is offered through the College of Education to assist students with developing their program planning skills.

The Late Night Advisory Board is housed in our office and assists in the campus-wide efforts to provide engaging late night activities

#### Fraternity and Sorority Life

Sororities and fraternities have been a part of campus life since 1841. Today, the Greek community consists of 33

inter/national sororities and fraternities, with approximately 14 percent of the student body participating as members. Involvement includes a wide range of social, educational, and philanthropic activity, as well as leadership opportunities within the Interfraternity Council, the National Pan-Hellenic Council, the Women's Panhellenic Association, and two Latino/a-based chapters.

#### Leadership Development Programs

The Office of Student Activities prepares students for socially responsible leadership in their communities. There are a variety of programs offered to help you learn about leadership and your potential. A four-credit class is offered through the College of Education (EDCP 400). The SLC (Student Leadership Consultants) team offers leadership assistance to all students and student organizations.

#### Student Organizations

Ohio University has more than 350 student organizations to explore. Becoming involved can help you perform better in other areas of your life and feel more a part of the University. You'll learn about community and about effective membership and leadership.

#### Honor Societies

These national organizations confer membership in recognition of high scholastic attainment and the fulfillment of other requirements. Honor societies encourage the development of a well-rounded personality and leadership and service qualities, in addition to academic achievement.

Alpha Lambda Delta, *Schol*  
Alpha Phi Sigma, *Criminal Justice*  
Alpha Pi Mu, *Industrial Engineering*  
Arnold Air Society, *Aerospace Studies*  
Association for Women in  
Communications, *Journalism*  
Beta Alpha Psi, *Accounting*  
Civil Engineering Honor Society  
Delta Phi Alpha, *German*  
Gamma Pi Delta, *Nontraditional*  
*Students*  
Golden Key, *Scholarship*  
Kappa Delta Pi, *Education*  
Lambda Pi Eta, *Communication*  
Mortar Board, *Scholarship, Activities*  
National Residence Hall Honorary  
Omega Chi Epsilon, *Chemical*  
*Engineering*  
Omicron Delta Kappa, *National Honor*  
*Society*  
Order of Omega, *Greek Leadership*

Phi Alpha Honor Society, *Social Work*  
Phi Beta Kappa  
Phi Gamma Nu, *Business*  
Phi Sigma Iota, *French*  
Pi Sigma Alpha, *Political Science*  
Pi Tau Sigma, *Mechanical Engineering*  
Psi Chi, *Psychology*  
Rho Lambda, *National Panhellenic*  
*Honorary*  
Sigma Delta Pi, *Spanish*  
Sigma Sigma Phi, *Osteopathic*  
*Medicine*  
Sigma Tau Delta, *English*  
Society of Professional Journalists  
Tau Beta Sigma, *Band*

### Student Senate

Student Senate is the elected representative voice of the student body and is part of the network of campus governmental bodies that also includes the Administrative Senate, Classified Senate, Faculty Senate, and Graduate Student Senate. Student Senate initiates programs and coordinates activities beneficial to students. Student Senate is responsible for the appointment of undergraduate students to University committees, and for allocating more than \$348,000 a year to student organizations. You are encouraged to contact the Student Senate for help in resolving issues and for information regarding programs and projects.

### Baker University Center

The John Calhoun Baker University Center is a focal point of cocurricular life at Ohio University. A variety of facilities, programs, and services are provided to the University community.

#### The Recreation Room

Located in the basement, offers a variety of recreational activities including billiards, air hockey, pinball, and video games.

#### The Front Room

A campus coffeehouse, serves espresso, cappuccino, Starbucks coffee, and specialty gourmet coffees, as well as tea, soda, seltzers, and juices. Also available are locally produced baked goods. Open seven days a week until midnight, it is a popular place to meet friends. Activities are planned for many nights and include dance nights, talent shows, open stage, poetry readings, lectures, and live performances by local and regional jazz, rock, country, and rhythm and blues artists.

**The Corner Café**

Located on the ground floor, serves Salubre Pizza, Subsation Subs, and Nathan's Hot Dogs daily for lunch and dinner.

**The State Room**

Located on the first floor, serves lunch daily. Also available are private rooms for luncheon meetings and a catering service.

**The Information Center**

In the main lobby provides general University information about events and services on campus as well as up-to-date listings of students, faculty, and staff. Adjacent to the lobby are a United States Post Office, the 1954 Lounge, the Alumni Lounge, and the 1804 Lounge, which includes a grand piano.

Other services available include an automated teller machine, telephones providing free local calls, personal check cashing service, photocopy machine, and e-mail access.

Meeting and reception rooms are available in Baker Center for groups from 10 to 500. Available are a ballroom, the Alumni Lounge and the 1804 Lounge, as well as 10 meeting rooms of various sizes. Reservations can be made at the administration office, Room 201. Baker Center also houses the Office of Student Activities, the Office of Multicultural Programs, Banquet and Catering Services, Lesbian Gay Bisexual Transgender Programs, the Center for Community Service, the Dean of Students Office, and the following student organizations:

Alpha Phi Omega	417
Athena Yearbook	320
Black Student Cultural	
Programming Board	419
Interfraternity Council	312
International Student Union	425
National Pan-Hellenic Council	305
The Post	Ground floor
Student Activities Commission	311
Student Senate	309
Students Defending Students	328
University Program Council (UPC)	407
Women's Panhellenic Association	312

# Colleges and Curricula

## Academic Organization

Ohio University offers curricula in 276 undergraduate majors leading to bachelor's or associate's degrees through nine colleges: Arts and Sciences, Business, Communication, Education, Engineering and Technology, Fine Arts, Health and Human Services, Honors Tutorial, and University. Programs are also offered through the Center for International Studies, the Division of Lifelong Learning, and the College of Osteopathic Medicine. The Office of Graduate Student Services coordinates graduate study at Ohio University.

Ohio University is fully accredited by the North Central Association of Colleges and Schools at the bachelor's, master's, and doctoral levels. In addition, numerous departments, schools, and colleges within the University hold individual accreditation as listed below. Additional information is available from the office of each college's dean.

The following list of colleges and areas includes degrees, accrediting agencies, and schools and departments.

### College of Arts and Sciences

Curricula leading to the Bachelor of Arts and Bachelor of Science degree; preprofessional curricula; and preparation for teaching at the secondary level.

#### Accreditation

American Psychological Association  
Council on Social Work Education

#### Departments

African American Studies  
Biological Sciences  
Chemistry and Biochemistry  
Classics and World Religions  
Economics  
English  
Environmental and Plant Biology  
Geography  
Geological Sciences  
History  
Linguistics  
Mathematics  
Modern Languages  
Ohio Program of Intensive English\*  
Philosophy  
Physics and Astronomy  
Political Science  
Psychology  
Social Work  
Sociology and Anthropology  
Women's Studies\*

\*not a degree program

### College of Business

Curricula leading to the Bachelor of Business Administration degree.

#### Accreditation

AACSB—The International Association of Management Education

#### Departments/Schools

Accountancy  
Finance  
Management Information Systems  
Management Systems  
Marketing

### College of Communication

Curricula leading to the Bachelor of Science in Communication, Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication degrees.

#### Accreditation

Accrediting Council on Education for Journalism and Mass Communication

#### Schools

Communication Studies  
Communication Systems Management  
Journalism  
Telecommunications  
Visual Communication

### College of Education

Teacher training curricula leading to the Bachelor of Science in Education degree; supervision of student teaching and other field experiences in education.

#### Accreditation

National Council for Accreditation of Teacher Education

#### Departments

Counseling and Higher Education  
Educational Studies  
Teacher Education

### Russ College of Engineering and Technology

Curricula leading to the Bachelor of Science in Aviation, Chemical Engineering, Civil Engineering, Computer Science, Electrical Engineering, Industrial and Manufacturing Systems Engineering, Industrial Technology, and Mechanical Engineering.

#### Accreditation

Accreditation Board for Engineering and Technology

National Association of Industrial Technology

#### Departments/Schools

Aviation  
Chemical Engineering  
Civil Engineering  
Electrical Engineering and Computer Science  
Industrial and Manufacturing Systems Engineering  
Industrial Technology  
Mechanical Engineering

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### College of Fine Arts

Curricula leading to the Bachelor of Fine Arts and Bachelor of Music degrees.

#### Accreditation

National Association of Schools of Dance

National Association of Schools of Music

National Association of Schools of Theater

#### Schools

Art

Dance

Film

Interdisciplinary Arts

Music

Theater

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### College of Health and Human Services

Curricula leading to the Bachelor of Science in Athletic Training; Environmental Health; Health; Hearing, Speech and Language Sciences; Human and Consumer Sciences; Industrial Hygiene; Nursing; Physical Education; Recreation Studies; and Sport Sciences; entry-level graduate curriculum leading to the Doctor of Physical Therapy.

#### Accreditation

Accreditation Board for Engineering and Technology

American Alliance for Health, Physical Education, Recreation, and Dance

American Association of Family and Consumer Sciences

Commission on Accreditation for Dietetics Education

Commission on Accreditation for Physical Therapy Education

Commission on Accreditation of Allied Health Education Programs

Commission on Collegiate Nursing Education

Council on Academic Accreditation of the American Speech-Language-Hearing Association

Foundation for Interior Design, Education, and Research

National Association of Boards of Examiners for Nursing Home Administrators

National Association for the Education of Young Children

National Council for Accreditation of Teacher Education

National Environmental Health Science and Protection Accreditation Council

National League for Nursing Accrediting Commission

National Recreation and Park Association/American Association for Leisure and Recreation

Sport Management Program Review Council

#### Schools

Health Sciences

Hearing, Speech and Language Sciences

Human and Consumer Sciences

Nursing

Physical Therapy

Recreation and Sport Sciences

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### Honors Tutorial College

A renowned degree-granting college with 26 programs of study. Honors Tutorial College students undergo a rigorous and exhilarating academic experience that combines a set of tutorials, upper division classes, and selected graduate courses. In order to allow students to pursue this challenging form of undergraduate education, Honors Tutorial College students are exempt from General Education Requirements, except English composition. A high percentage of the students in this college enter graduate or professional school. You may request consideration for admission to the Honors Tutorial College and must indicate a program of study at the time of application.

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### University College

College for students who have not decided on a major. Two-year programs leading to the Associate in Arts, Associate in Science, and Associate in Individualized Studies degrees. Four-year programs leading to the Bachelor of Specialized Studies and Bachelor of Criminal Justice degrees. Two and four-year Reserve Officers' Training Corps programs leading to commissions in the U.S. Army and the U.S. Air Force.

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### Graduate Studies

Programs leading to the Master of Arts, Master of Business Administration, Master of Communication Technology and Policy, Master of Education, Master of Fine Arts, Master of Music, Master of Public Administration, Master of

Science, Master of Social Science, Master of Social Work, Master of Sports Administration, Doctor of Audiology, Doctor of Education, Doctor of Philosophy, and Doctor of Physical Therapy degrees. Certificate programs are also offered in the areas of Conservation Biology\*, Contemporary History\*, Gerontology, Health Care Services Administration, Health Policy, Music Performance, and Women's Studies\*. (See the Graduate Catalog for specific programs and majors.)

\*participants in these certificate programs must be concurrently admitted to a graduate degree program as a degree-seeking student.

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### Center for International Studies

Jointly administers a Bachelor of Arts in International Studies with the College of Arts and Sciences. For non-majors, the Center offers certificates in:

African Studies

Asian Studies

European Studies

Latin American Studies.

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### Lifelong Learning

Provides educational opportunities beyond the regular channels of the University by using the resources of the University in nontraditional ways.

Both credit and noncredit programs are available to students on campus, as well as at a distance.

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### College of Osteopathic Medicine

Offers a four-year medical education program leading to the Doctor of Osteopathic Medicine degree (see separate catalog) and postdoctoral programs in family practice, general surgery, orthopedics, pediatrics, and obstetrics and gynecology. Accredited by the American Osteopathic Association.

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### Regional Campuses

Chillicothe

Eastern (St. Clairsville)

Lancaster

Southern (Ironton)

Zanesville



# Major Codes

The following is a listing of undergraduate major codes arranged by the college in which each major is offered. Some programs and majors are offered through more than one college, and not all majors are open to incoming freshmen. For specific information on a particular program, see the appropriate college section of the catalog.

## Major Code Prefixes

The two-letter prefix of each major code indicates the type of degree awarded in that major. In some cases, it indicates that an additional application process is required for admission to the major.

AA	Associate in Arts
AAS	Associate in Applied Science
AS	Associate in Science
BA	Bachelor of Arts
BB	Bachelor of Business Administration
BC	Bachelor of Science in Communication
BF	Bachelor of Fine Arts
BJ	Bachelor of Science in Journalism
BM	Bachelor of Music
BS	Bachelor of Science
ND	Nondegree program
SA	Separate application required

## College of Arts and Sciences

Some of the majors in this college have two major codes. In general, with these majors you have the option of choosing *either* a degree program that is more hard sciences oriented (BS) or one that is more liberal arts/humanities oriented (BA). Details on curricular differences can be found in the College of Arts and Sciences section under the specific program listings. You may want to consult with an admissions officer or a college representative about which option is more suitable for you.

BA4903	African American Studies
BA4252	Anthropology
BS2121	Biological Sciences
BS2520	Cellular and Molecular Biology
BS2121	Integrated Biology
BS2126	Marine, Freshwater, and Environmental Biology
BS0411	Microbiology
BS2507	Pre-Physical Therapy

BS2127	Pre-Professional Program
BS2515	Wildlife and Conservation Biology
	<b>Chemistry and Biochemistry</b>
BS3311, BA3311	Chemistry
BS3316	Biochemistry
BS3315, BA3315	Environmental Chemistry
BS3310	Forensic Chemistry
BS3312, BA3312	Pre-dentistry
BS3313	Prepharmacy
BS3314, BA3314	Premedicine
	<b>Classics and World Religions</b>
BA5214	Classical Civilization
BA5212	Greek
BA5213	Greek and Latin
BA5211	Latin
BS5215	World Religions
BS0701, BA0701	Computer Science
BA4221	Economics
BA4223	Pre-Foreign Service
BA4222	Prelaw
BA5231	English
BA5232	Creative Writing
BA5234	Prelaw
BA5233	Pretheology
	<b>Environmental and Plant Biology</b>
BS2118	Cell Biology and Biotechnology
BS2113	Environmental Biology
BS2115	Field Biology
BS2111, BA2111	Plant Biology
	<b>Environmental Studies</b>
	(see Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences)
BS4231, BA4231	Geography
BS4236, BA4236	Cartography
BS4232	Environmental
BS4237	Environmental Prelaw
BS4235	Geographic Information Systems Analyst

BS4238	Meteorology
BS4234, BA4234	Urban Planning
BS3321, BA3321	Geological Sciences
BS3323	Environmental
BA4211	History
BA4212	Pre-Foreign Service
BA4214	Prelaw
BA4213	Pretheology
ND4404	International Studies* pre-major status
BA4405	Africa
BA4406	Asia
BA4407	Europe
BA4408	Latin America
BA5290	Linguistics
BS3101, BA3101	Mathematics
BS3105, BA3105	Actuarial Sciences
BS3103	Applied
BS3104, BA3104	Meteorology
BS3102, BA3102	Prep. for Advanced Training
	<b>Modern Languages</b>
BA5221	French
BA5222	German
BA5224	Russian
BA5225	Spanish
BA5241	Philosophy
BA5244	Prelaw
BA5242	Pretheology
BS3331, BA3331	Physics
BS3332	Applied Physics
BS3335	Astrophysics
BS3338	Meteorology
BA4201	Political Science
BA4202	Pre-Foreign Service
BA4203	Prelaw
BA4200	Public Administration
BA4101	Psychology
BA4105	Pre-Physical Therapy
BA6601	Social Work <sup>1</sup>
ND6603	Pre-Social Work*
BA4251	Sociology
BA4253	Criminology
BA4254	Prelaw
BA5131	Theater
ND0410	Undecided**

\* These entry-level programs do not fulfill degree but are intended as preparation for admission into a major or professional school or program.

<sup>1</sup> Not open to freshmen; you must complete the Pre-Social Work Program before you can become a social work major.

\*\*Some restrictions apply. See Undecided under College of Arts and Sciences

**College of Business**

BB6121	Accounting
BB6124	Business Economics
BB6120	Business Prelaw
BB6125	Finance
BB6122	General Business
BB6130	Human Resource Management
BB6132	International Business
BB6126	Management
BB6137	Management Information Systems
BB6127	Marketing
ND0610	Undecided

**College of Communication**

	Communication Studies
BC5342	Organizational Communication
BC5357	Communication and Public Advocacy
BC5358	Health Communication
BC5329	Communication Systems Management (Voice/data/image communication network and services. Electives in data communication, voice communication systems, international communication, regulatory policy)
	Journalism
BJ6932	Advertising Management
BJ6936	Broadcast News
BJ6933	Magazine Journalism
BJ6934	News Writing and Editing
BJ6909	Online Journalism
BJ6935	Public Relations
	Telecommunications
BC5352	Audio-Media Production
BC5353	Audio-Music Production
BC5354	Audio-Post-Production
BC5312	Management
BC5348	Media Studies-Society
BC5349	Media Studies-International

BC5350	Media Studies-Technologies
BC5351	Media Studies-Individualized
BC5355	Media Studies-Politics
BC5313	Video Production
	Visual Communication
BS6924	Informational Graphics/Publication Design
BS6923	Interactive Multimedia
BS6922	Photojournalism
BS6925	Commercial Photography

**College of Education**

	Early Childhood Education
BS6854	Early Childhood Education <sup>2</sup>
	Middle Childhood Education
BS6175	Mathematics and Social Studies
BS6176	Science and Social Studies
BS6177	Mathematics and Science
BS6178	Language Arts and Social Studies
BS6179	Language Arts and Science
BS6180	Language Arts and Mathematics
	Adolescent to Young Adult Programs
BS6314	Life Science
BS6315	Earth Science
BS6306	Integrated Language Arts
BS6307	Integrated Mathematics
BS6309	Integrated Science
BS6308	Integrated Social Studies
BS6310	Physical Science
	Multi-age Programs
BS6201	Visual Arts <sup>1</sup>
BS6232	French
BS6235	Spanish
BS6233	German
BS6242	Choral Music <sup>1</sup>
BS6241	Instrumental Music <sup>1</sup>
BS6312	Physical Education <sup>2</sup>
BS6316	Special Education-Intervention Specialist Mild-Moderate Educational Needs

BS6317	Special Education-Intervention Specialist Moderate Intensive Educational Needs
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**ND0810 Undecided**

- <sup>1</sup> Offered in both the College of Education and the College of Fine Arts. You may receive teacher licensure regardless of the college in which you enroll.
- <sup>2</sup> Offered in both the College of Education and the College of Health and Human Services. You may receive teacher licensure regardless of the college in which you enroll.

**Russ College of Engineering and Technology**

	Aviation
BS7261	Aviation Management
BS7258	Flight
AA7250	Aviation Technology
BS7251	Chemical Engineering (technical electives in environmental engineering, materials science and processing, and biochemical engineering)
BS7252	Civil Engineering (technical electives in environmental engineering, geo-technical engineering, pavements, surveying, structural mechanics and design, trans-portion and water resources)
BS7260	Computer Science (areas of specialization in artificial intelligence, computer networking, computer science theory, database systems, operating systems, parallel processing/compilers, and software engineering)
BS7253	Electrical Engineering: electrical engineering track (technical electives in avionics, circuit design, communication, computers, control systems, electromagnetics, electronics and instrumentation, energy sources and systems, and power transmission and distribution)
BS7254	Electrical Engineering: computer engineering track

**BS7255 Industrial and Manufacturing Systems Engineering**  
(technical electives in manufacturing systems, manufacturing information systems, and operations research)

**BS7256 Industrial Technology**  
(focus areas include materials and processes or manufacturing information technology; also includes minor in business)

**BS7257 Mechanical Engineering**  
(technical electives in energy, thermal systems, CAD/CAM, materials processing, vehicle dynamics, robotics, manufacturing, and machine design)

**ND0910 Undecided**

**ND9917 Nondegree**  
<sup>1</sup> Not open to freshmen; apply initially as a General Art major.  
<sup>2</sup> Not open to freshmen; apply initially as a General Theater major.

## College of Health and Human Services

**Health Sciences**  
**BS8105 Community Health Services**  
**BS6260 Environmental Health Science**  
**BS8119 Health Services Administration**  
**BS3309 Industrial Hygiene**  
**BS6836 Long-Term Health Care Administration**  
**BS5305 Hearing, Speech and Language Sciences**

**Human and Consumer Sciences**  
**AA1106 Child Development**  
**BS6360 Dietetics**  
**BS6355 Early Childhood**  
**BS6370 Family and Consumer Sciences Education<sup>2</sup>**  
**BS6351 Family Studies**  
**BS6383 Interior Architecture**  
**BS6363 Nutrition with Science**  
**BS6361 Restaurant, Hotel and Tourism**  
**BS6380 Retail Merchandising**

**Nursing**  
**ND1205 Pre-Baccalaureate Nursing<sup>3</sup>**  
**BS1203 Baccalaureate Nursing<sup>3</sup>**  
**ND1204 School Nurse<sup>3</sup>**

**Physical Therapy<sup>4</sup>**  
**Recreation and Sport Sciences**  
**ND8142 Pre-Athletic Training<sup>5</sup>**  
**ND8106 Pre-Physical Education<sup>2,5</sup>**

**Recreation Studies**  
**BS8113 Adventure Recreation**  
**BS8128 Campus Recreation**  
**BS8108 Outdoor Education and Camping**  
**BS8109 Recreation Management**  
**BS8104 Therapeutic Recreation**

## Sport Sciences

**BS8122 Exercise Physiology**  
**ND8123 Pre-Sport Industry<sup>5</sup>**

## ND0210 Undecided

- <sup>1</sup> Jointly offered by both the College of Education and the College of Health and Human Services. Degree awarded is Bachelor of Science in Education regardless of College.
- <sup>2</sup> Offered in both the College of Health and Human Services and the College of Education. Apply initially to the College of Health and Human Services. You may receive teacher licensure regardless of the College in which you enroll.
- <sup>3</sup> Not open to freshmen—available only to registered nurses.
- <sup>4</sup> Not open to freshmen—selective admission doctoral program. Enter through a preparatory program such as Biological Sciences Pre-Physical Therapy or Psychology Pre-Physical Therapy in the College of Arts and Sciences, or Sport Sciences—Exercise Physiology in the College of Health and Human Services. You must apply for the doctoral program through the School of Physical Therapy.
- <sup>5</sup> Selective admission program. Consult the program listing for details.

## College of Fine Arts

**Art**  
**ND5153 General Art**  
**BF5122 Art Education<sup>1</sup>**  
**BF5123 Art History<sup>1</sup>**  
**BF5127 Ceramics<sup>1</sup>**  
**BF6321 Graphic Design<sup>1</sup>**  
**BF5124 Painting<sup>1</sup>**  
**BF5143 Photography<sup>1</sup>**  
**BF5128 Printmaking<sup>1</sup>**  
**BF5126 Sculpture<sup>1</sup>**  
**BF5151 Dance**  
**Music**  
**ND5117 Pre-Music**  
**BM5105 Music Composition**  
**BM5106 Music Education—Choral**  
**BM5107 Music Education—Instrumental**  
**BM5114 Music History and Literature**  
**BM5116 Music Theory**  
**BM5115 Music Therapy**  
**BM5103 Orchestral Instruments**  
**BM5102 Organ Performance**  
**BM5104 Piano Pedagogy**  
**BM5100 Piano Performance**  
**BM5101 Voice Performance**  
**Theater**  
**BF5137 General Theater**  
**BF5167 Management<sup>2</sup>**  
**BF5161 Performance<sup>2</sup>**  
**BF5165 Playwriting<sup>2</sup>**  
**BF5162 Production Design and Technology<sup>2</sup>**

## Honors Tutorial College

Some of the majors listed below have two major codes, of which you will select one. In general, the second option (BA) provides a curriculum that is more liberal arts oriented. You may want to consult with an admissions officer or a college representative regarding which option is more suitable for you.

**BA1934 Anthropology**  
**BS1931 Astrophysics**  
**BS1902 Biological Sciences**  
**BB1926 Business**  
**BS1904 Chemistry**  
**BA1932 Classics**  
**BS1918 Communication Studies**  
**BA1929 Computer Science**  
**BF1906 Dance**  
**BS1925 Engineering Physics**  
**BA1916 English**  
**BS1901 Environmental and Plant Biology**  
**BF1924 Film**  
**BA1914 French**  
**BS1919 Hearing, Speech and Language Sciences**

BA1909	History
BJ1923	Journalism
B51903	Mathematics
BA1917	Philosophy
B51905	Physics
BA1908	Political Science
BA1930	Social Work
BA1912	Sociology/ Sociology- Criminology
BA1915	Spanish
BC1920	Telecommunications
BF1913, BA1913	Theater

### University College

	Associate in Arts
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
AI5508	Associate in Individualized Studies <sup>1</sup>
A51104	Associate in Science
BC2209	Bachelor of Criminal Justice <sup>2</sup>
B51112	Bachelor of Specialized Studies <sup>3</sup>
ND1201	Undecided

<sup>1</sup> Separate application required.

<sup>2</sup> Requires an associate's degree in an area related to criminal justice for admission. Not open to first-year students.

<sup>3</sup> Separate application required. Not open to first-year students.

### Regional Higher Education

The following associate's degrees are available on all regional campuses:

	Associate in Arts
AA1101	Arts and Humanities Emphasis
AA1110	Social Sciences Emphasis
A51104	Associate in Science
AI5508	Associate in Individualized Studies <sup>1</sup>

### Chillicothe Campus

AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA5003	Deaf Studies and Interpreting
AA5018	Environmental Engineering Technology
AA5004	Hazardous Materials Technology
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
ND2341	Pre-Nursing
SA2341	Nursing, RN
AA5014	Office Technology

### Lancaster Campus

AA5002	Accounting Technology
AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA5013	Electronic Media
AA5020	Industrial Maintenance Technology
AA5505	Law Enforcement Technology
AA5021	Materials Management Technology
AA5019	Medical Assisting Technology

### Southern Campus

AA5002	Accounting Technology
AA5006	Business Management Technology
AA1106	Child Development
AA5010	Computer Science Technology
AA5013	Electronic Media
AA5017	Equine Studies
AA5201	Human Services Technology
AA5505	Law Enforcement Technology
AA5014	Office Technology
AA5021	Materials Management Technology
ND2341	Pre-Nursing
SA2341	Nursing, RN
AA5016	Travel and Tourism

### Zanesville Campus

AA5013	Electronic Media
ND2341	Pre-Nursing
SA2341	Nursing, RN

<sup>1</sup> Separate application required.

## Minor Codes

In general, all academic minors are open to any student pursuing a baccalaureate program at the University. Detailed information for each minor is listed in the catalog section of the college through which the minor is offered; check the index for the specific location.

OR4903	African American Studies	OR4211	History
OR4252	Anthropology	ORIART	Interdisciplinary Arts
ORARTM	Art	OR5211	Latin
ORASTR	Astronomy	OR5290	Linguistics
OR6360	Basic and Applied Nutrition	OR3101	Mathematics
OR2121	Biological Sciences	OR4233	Meteorology
ORBSAD	Business	ORMUSI	Music
OR3311	Chemistry	OR5241	Philosophy
OR5214	Classical Civilization	OR3331	Physics
ORCOMS	Communication Studies	OR2111	Plant Biology
OR5151	Dance	OR4201	Political Science
OR4221	Economics	OR4101	Psychology
OR5231	English	OR8109	Recreation
OR6260	Environmental Health Sciences	OR6380	Retail Merchandising
ORFILM	Film	OR5224	Russian
OR5221	French	OR6602	Social Services
OR4231	Geography	OR4251	Sociology
OR3321	Geological Sciences	OR5225	Spanish
OR5222	German	ORTCOM	Telecommunications
OR5212	Greek	ORTHAR	Theater
OR5305	Hearing, Speech and Language Sciences	OR5215	World Religions

## Certificate Programs

The certificate programs listed here are open to all students pursuing baccalaureate programs at the University, regardless of college or major. The equivalent of minors, these interdisciplinary programs can complement your major, broaden your career possibilities, or allow you to study an area of interest from a variety of perspectives. You will be awarded the certificate and receive official recognition on your transcript when you graduate. Please note that these certificate programs are not related to teaching or other professional certification conferred by outside agencies. To enroll in a program, contact the College or address noted below for a form or application. Your own College will enter your certificate information into your record.

### East Asian Studies

The East Asian Studies Certificate provides students with an appreciation of China, Japan, and Korea and the role this vital region plays in the changing world politics. To ensure a broad understanding of East Asia, the interdisciplinary approach to meeting requirements includes courses in art, business, film, geography, history, journalism, linguistics, political science, sociology, and languages. With the increasing expansion of American businesses to East Asian nations and East Asian-based businesses to the United States, a sound knowledge about East Asia may enhance your undergraduate degree and lead to career or graduate school opportunities.

You can earn the East Asian Studies Certificate by completing the beginning and intermediate levels (or higher, with demonstrated ability) of an East Asian language and an additional 32 hours, including an introductory and a capstone course, and at least 6 additional courses from a wide array of academic disciplines offered by the Colleges of Arts and Sciences, Fine Arts, Business, and Communication.

For more information and a list of approved courses, see the complete program description in the College of Arts and Sciences section.

### Environmental Studies

The field of environmental studies encompasses the complex interactions among humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is offered by the College of Arts and Sciences for students who want to gain knowledge and understanding about the interdisciplinary field of environmental studies.

You can earn a certificate in environmental studies by completing 32–35 hours that include required introductory and ecology courses and approved selections from the areas of quantitative skills, natural sciences, and social sciences. Many certificate courses satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

### Gerontology

The College of Health and Human Services and the College of Arts and Sciences jointly sponsor the undergraduate Gerontology Certificate Program for students who want to gain knowledge and skills for a career that involves working with the elderly. Traditional aging-related content, and the global impact of aging are linked with program initiatives that enable students to appreciate how this growing population affects their own area of study. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population. You can earn the certificate by completing at least 28 credit hours of selected coursework, including an approved practicum, field experience, or internship.

For additional information and a list of approved courses, see the complete program description in the Health and Human Services section.

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## Global Learning Community

The Global Learning Community (GLC) is an innovative, two-year program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, and Business in an interdisciplinary, 30 quarter-hour program on global issues, with a strong emphasis on real-world projects and problem-solving skills.

GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on global problems and issues. Students enter the GLC in fall quarter of their sophomore or second year, and spend that year in residence in Bromley Hall, a private residence hall near campus. The junior year is non-residential. Each GLC student completes at least two international and cross-cultural projects.

For additional information, see the complete program description in the "University-Wide Academic Opportunities" section or visit the GLC Web site: <http://www.ohiou.edu/glc/>.

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## International Studies

The Center for International Studies offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their program of study, as well as for those interested in international careers or who are planning graduate work in area studies.

Earning the certificate involves completing seven to nine approved courses relating to the area of study—including language courses, in some cases—with an overall g.p.a. of 2.5 in courses taken toward the certificate.

For additional information, see the complete program description in the Arts and Sciences section.

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## Italian Studies

The aim of the Italian Studies Certificate is to provide students with the opportunity to enter into the study of the rich and varied culture of Italy through an interdisciplinary and complementary approach. Courses offered by the Colleges of Arts and Sciences and Fine Arts include the core study of the Italian language, both written and spoken, along with 24 credit hours from courses in art history, Italian literature, history, classical archeology, and classics. The result is a knowledge base that provides both depth and scope, a true enhancement to any undergraduate degree program.

For more information about the certificate and a list of approved courses, see the complete program description in the Arts and Sciences Section.

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## Political Communication

The College of Arts and Sciences and the College of Communication jointly sponsor a certificate in political communication for students who wish to supplement their major with an inquiry into the area of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes.

To receive a certificate in political communication, you must complete two introductory courses and an additional 22 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the College of Communication section.

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## Sales

The College of Business through the Sales Centre at Ohio University sponsors the undergraduate Sales Certificate Program for students who want to develop knowledge and skills in professional selling. There are currently two options in the Sales Certificate Program—The Sales Certificate with a Professional Focus and the Sales Certificate with a Retail Focus. Admission into the Sales Certificate Program is competitive, and space is limited. Students accepted into the program can earn a Sales Certificate by completing the approved coursework and a sales internship, a total of 28 hours.

For further information, a list of approved courses, and an explanation of competitive entrance requirements, see the complete program description in the College of Business section.

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## Women's Studies

Students in any major may earn the Women's Studies Certificate by completing three required Women's Studies courses and an additional 18 quarter hours of approved coursework.

For additional information and a list of approved courses, see the complete program description in the Arts and Sciences section.

# College of Arts and Sciences

Wilson Hall, College Green

**Leslie Flemming**  
*Dean*

**Maureen Weissenrieder**  
*Associate Dean*

**Caryn Asleson**  
*Assistant Dean for Student Affairs*

**Karen Dahn**  
*Assistant to the Dean for Student Affairs*

**From its very founding, Ohio University's reputation rested firmly on a liberal arts curriculum. As the University prepares to enter into its third century, the College of Arts and Sciences proudly provides students with exciting and dynamic programs of study appropriate for the 21st century. Reflecting a changing society and today's career directions, the College offers an expanded and modern curricula, while continuing to be guided by the principles of the liberal arts tradition.**

The objectives of a liberal education are achieved through courses that make up the curricula of the college—courses which historically have been regarded as the means whereby human beings come to understand themselves and the world in which they live. These courses fall within the academic areas known as the humanities, social sciences, and natural sciences. A liberal arts education, both in breadth and approach, provides not only the specific knowledge and skills required for careers in today's changing society, but encourages a lifetime quest for active learning.

As a student in the College of Arts and Sciences, you are offered an expanded and modern curriculum that reflects the principles of a liberal arts tradition. Whether you pursue a Bachelor of Arts (B.A.) or a Bachelor of Science (B.S.) degree, you will obtain specialized knowledge through a major field of study while acquiring a fundamental education in foreign languages and other humanities, the social sciences, and natural sciences. College requirements are designed to allow generous opportunity for you to elect from hundreds of courses in addition to a traditional major. If you require a more structured undergraduate program to prepare for a specific educational or career objective, you may choose a major from among the special curricula.

If you have not settled on a major, but would like to be enrolled in the College of Arts and Sciences while you are considering the many options available, you may apply to

the University as undeclared or "undecided" in Arts and Sciences.

While the College of Arts and Sciences has the distinction of being the largest and oldest college at Ohio University, it is ever changing in its quest to meet the needs of its students. Comprising 19 departments, the College provides 27 regular major programs, dozens of special curricula in specific career-related areas, the undeclared ("undecided") option, 4 majors offered in cooperation with other colleges, 28 minors, and 7 certificate programs. A number of departments in Arts and Sciences offer outstanding students the opportunity to graduate with departmental honors by writing a thesis. While this option is restricted to students who maintain a 3.50 g.p.a., you should speak to your

major advisor if you are interested. An exciting selection of courses in language and culture includes many familiar programs such as Latin or French, as well as less commonly available languages, e.g. Russian, Italian, Chinese, Swahili, and Greek, which attracts students from all majors. You are strongly encouraged to consider study abroad opportunities at more than a dozen sites as another way to optimize your liberal arts education.

College and departmental requirements for the B.A. and B.S. degrees are described in detail on the following pages and in the Majors, Minors, and Certificate Programs section.

## Departments

The College of Arts and Sciences comprises the following 19 academic departments:

African American Studies  
Biological Sciences  
Chemistry and Biochemistry  
Classics and World Religions  
Economics  
English  
Environmental and Plant Biology  
Geography  
Geological Sciences  
History  
Linguistics  
Mathematics  
Modern Languages  
Philosophy  
Physics and Astronomy  
Political Science  
Psychology  
Social Work  
Sociology and Anthropology

The College also includes the following six programs:

Master of Public Administration Program  
Master of Environmental Studies Program  
Master of Social Studies Program  
Ohio Program of Intensive English (OPIE)  
Ph.D. in Molecular and Cellular Biology Program  
Women's Studies Program  
Departments offering master's programs are Economics, Geography, Geological Sciences, Linguistics, Modern Languages, Philosophy, Political Science, Social



Work, and Sociology and Anthropology. Master's and doctoral programs are offered by the Departments of Biological Sciences, Chemistry and Biochemistry, English, Environmental and Plant Biology, History, Mathematics, Physics and Astronomy, and Psychology. Further information about the advanced degree programs can be found in the Ohio University Graduate Catalog.

## Office of Student Affairs

The College of Arts and Sciences Office of Student Affairs assists students with academic concerns, such as advising and career choices, as well as overseeing administrative matters related to academic progress, including records management, academic suspension, reinstatement, and graduation conferral. The office is on the first floor of Wilson Hall on the College Green.

## Degrees, Majors, Minors, and Certificates

The college offers two four-year degrees: the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.). The B.A. and B.S. degree programs differ in the language requirements (see "Foreign Language Requirements") and in specific major course requirements as established by the department. Regardless of major, all Arts and Sciences degree students meet basically consistent requirements for any particular program, including a minimum core program of 36 quarter hours, with 16 hours at the 300-400 level. For most majors, the B.A. or B.S. designation is determined by the program and is not subject to student preference.

### B.A. Degree Programs

A major for the B.A. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and special curricula (in italics):

#### African American Studies

African American Studies

#### Anthropology

Anthropology

#### Chemistry and Biochemistry

Chemistry  
Environmental Chemistry  
Predentistry  
Premedicine

#### Classics and World Religions

Classical Civilization  
Greek  
Greek and Latin  
Latin  
World Religions

#### Computer Science

Computer Science\*\*

### Economics

Economics  
Pre-Foreign Service  
Prelaw

### English

English  
Creative Writing  
Prelaw  
Pretheology

### Environmental and Plant Biology

Plant Biology

### Geography

Geography  
Cartography  
Urban and Regional Planning

### Geological Sciences

Geological Sciences

### History

History  
Pre-Foreign Service  
Prelaw  
Pretheology

### International Studies

pre-major status\*

*International Studies—Africa*  
*International Studies—Asia*  
*International Studies—Europe*  
*International Studies—Latin America*

### Linguistics

Linguistics

### Mathematics

Mathematics  
Meteorology  
Prep. for Actuarial Sciences  
Prep. for Advanced Training

### Modern Languages

French  
German  
Russian  
Spanish

### Philosophy

Philosophy  
Prelaw  
Pretheology

### Physics and Astronomy

Physics

### Political Science

Political Science  
Pre-Foreign Service  
Prelaw  
Public Administration

### Psychology

Psychology  
Pre-Physical Therapy

### Social Work

Pre-Social Work\*  
Social Work

### Sociology

Criminology  
Prelaw  
Sociology

### Theater\*\*\*

\* These entry level programs do not fulfill a degree but are intended as preparation for admission into a major or professional school or program

\*\* Computer science majors can choose to earn a B.A. or B.S. from the College of Arts and Sciences or a B.S.C.S. from the Russ College of Engineering and Technology.

\*\*\*Theater majors can choose to earn a B.A. from the College of Arts and Sciences (with oversight and advising for the major from the School of Theater), or a B.F.A. in theater from the College of Fine Arts.

### B.A. Majors Outside the College

Arts and Sciences students may earn a B.A. from the College of Arts and Sciences by completing a major in one of the following schools outside the college: Art, Communication Studies, Music, or Theater. Except for theater, admission into any of these programs is by special arrangement and requires the permission of the director of the appropriate school. All selective admission policies apply. For more information, inquire at the College of Arts and Sciences Student Affairs Office.

### B.S. Degree Programs

A major for the B.S. degree may be completed in the following areas. This list is in alphabetical order by department and includes both traditional majors and special curricula (in italics):

#### Biological Sciences

Biological Sciences  
Cellular and Molecular Biology  
Integrated Biology  
Marine, Freshwater, and Environmental Biology  
Microbiology  
Pre-Physical Therapy  
Pre-Professional Program  
Wildlife and Conservation Biology

#### Chemistry and Biochemistry

Chemistry  
Biochemistry  
Environmental Chemistry  
Forensic Chemistry  
Predentistry  
Premedicine  
Prepharmacy

#### Computer Science

Computer Science\*\*

#### Environmental and Plant Biology

Plant Biology  
Cell Biology and Biotechnology  
Environmental Biology  
Field Biology

#### Geography

Geography  
Cartography  
Environmental Geography  
Environmental Prelaw  
Geographic Information Systems Analyst  
Meteorology  
Urban and Regional Planning

#### Geological Sciences

Geological Sciences  
Environmental Geology

#### Mathematics

Mathematics  
Prep. for Actuarial Sciences

*Prep. for Advanced Training*  
*Applied Mathematics*  
*Meteorology*

### **Physics**

Physics  
*Applied Physics*  
*Astrophysics*  
*Meteorology*

- \* These preprofessional programs do not fulfill any degree program but are intended as preparation for admission into a professional school or program.
- \*\* Computer science majors can choose to earn a B.A. or B.S. from the College of Arts and Sciences or a B.S.C.S. from the Russ College of Engineering and Technology.

### **Minors**

If you wish to complete a formal minor in addition to your major, you may select a minor offered by the College of Arts and Sciences or one from another college. Minors available in the College of Arts and Sciences are:

#### **African American Studies**

Anthropology

Astronomy

Biological Sciences

Chemistry

Classical Civilization

Economics

English

French

Geography

Geological Sciences

German

Greek

History

Latin

Linguistics

Mathematics

Meteorology

Philosophy

Physics

Plant Biology

Political Science

Psychology

Russian

Social Services

Sociology

Spanish

### **Certificates**

Certificates available in the College of Arts and Sciences can be a part of any major program offered by Ohio University. Detailed information is available in the Majors, Minors and Certificate Programs section that follows. Certificate programs include:

#### **East Asian Studies**

in cooperation with the Colleges of Business, Communication, and Fine Arts

#### **Environmental Studies**

#### **Gerontology**

in cooperation with the College of Health and Human Services

### **International Studies—African, Asian, or Latin American**

#### **Italian Studies**

in cooperation with the College of Fine Arts

#### **Political Communication**

in cooperation with the College of Communication

#### **Women's Studies**

Certificate programs and minors are open to students in any program, regardless of college, except as restricted by that program or college.

### **Departmental Honors**

Many departments in the College of Arts and Sciences offer outstanding students the opportunity to graduate with departmental honors through the writing of a thesis. To be eligible to participate in an honors program in Arts and Sciences, you must maintain at least a 3.50 g.p.a. For specific information about honors recognition for your major, see your academic advisor before the end of your junior year.

## **Admission Requirements**

Upon being admitted to Ohio University as a first-year student, you may request direct entry into the College of Arts and Sciences by declaring any of the majors listed above or as an undeclared major. However, you may not earn more than 90 hours in the undecided category before you declare a regular major.

### **Transfer from Other Colleges Within Ohio University**

To transfer into the College of Arts and Sciences from another college within the University, you must declare a major in the College of Arts and Sciences and be in good standing academically with an accumulative g.p.a. no lower than 2.0. If you have earned 45 or more hours, you are not eligible to declare an undecided major in Arts and Sciences.

Courses taken to satisfy requirements in other colleges (e.g., MATH 120, HSS 378) will not necessarily fulfill requirements in the College of Arts and Sciences or in your new major.

As long as your g.p.a. is 2.0 or higher, you may apply to transfer to the College of Arts and Sciences at any time. After the 14th day, any changes become official for the following quarter.

### **Transfer from Other Universities**

Applicants to the College of Arts and Sciences from other accredited collegiate institutions must first meet Ohio University's transfer specifications as outlined under "Transfer Applicant" in the Admissions section of the catalog. You must declare a major other than undecided.

The College determines the transferability of credit from other institutions based upon whether the institution is accredited or a recognized candidate for accreditation. The College follows the recommendations of the American Association of Collegiate Registrars and Admissions Officers in recognizing transfer credit. For credit earned at foreign institutions and other special cases, the college accepts the recommendations of the University examiner in the Office of Admissions.

The College evaluates credits on a course-by-course basis, assigning an Ohio University course number whenever possible.

Technical credits for nonbaccalaureate-level courses (e.g., diesel mechanics or office management) are evaluated as technical electives. Even though such credits do not meet any specific degree requirement, you are allowed up to 25 hours of technical electives to count toward total graduation hours. The benefits of technical coursework are debatable. If you are currently enrolled in a two-year program with the intention of transferring to Ohio University, it is important to take as much college-level work as possible in areas such as humanities, social sciences, mathematics, and science to improve your chances of completing the four-year degree program within two to three additional years.

Student records sent to the Office of Admissions from other collegiate institutions rarely include high school transcripts. Transferring students should order a high school transcript that includes final semester grades, to be sent directly to the Office of Student Affairs, College of Arts and Sciences, so that your language placement can be determined.

In addition to fulfilling University residency requirements, you are required to complete at least 24 quarter hours of 2.0 work in your major at Ohio University, with a minimum of 12 hours at the 300 level or above. If you have a double major, you will need to complete at least 18 quarter hours of work in each major at Ohio University, with a minimum of 9 hours at the 300 level or above in each of the two departments. Additionally, you must maintain a 2.0 g.p.a. Courses should be approved by the respective departments.

To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300-400 level with a grade of 2.0 or above.

### **Foreign Language Requirement for Transfer Students**

Based on the formula for calculating SEMESTER hours at 1.5 x each credit earned upon transfer:

**A. 4 semester hours transfer to Ohio University as 6 quarter credits each.** Contingent upon the courses being determined as equivalent in content, 1 year (two semesters) of foreign language, with grades of C- or better, will transfer as 12 quarter credit hours, and thus fulfill one year of foreign language in Arts and Sciences (111-112-113 or 211-212-213).

**B. 3-credit hour language courses with grades of C- or better will transfer as 4.5 credit hours.** One year (two semesters) totals 9 quarter hours at Ohio University. Even if the content is equivalent to Ohio University's course, it is 3 credits deficient of a full year. The second-semester course will be evaluated as 112 or 212 of the sequence.

Credit from QUARTER calendar schools will transfer with an equivalent number of credits:

**A. 4-credit hour courses transfer as 4 credits each.** If the courses are determined to be equivalent in content, three quarters of language study with grades of C- or better will transfer as 12 credits to fulfill the requirement of one year (111-112-113 or 211-212-213) of foreign language at Ohio University.

**B. 3-credit hour courses transfer as 3 credits each.** Three quarters of language study transfers as 9 credits of language study, thus being deficient by 3 credits to one year of language study at Ohio University.

**C. In the case of 3-credit quarter courses, the 3 courses would total 9 credits, divided at the appropriate level of study into 4.5 credit units to equal 111-112 or 211-212.**

**D. 5-credit hour courses with grades of C- or better will transfer as 5 credits each.** Two quarters of study would transfer as 10 credit hours and be deficient by 2 credits of fulfilling the Arts and Sciences requirement of 12 credits. Three quarters of study will transfer as 15 credits, thereby fulfilling the College of Arts and Sciences foreign language requirement.

**II. If you have transferred fewer than 12 credits, but have completed a full year of study at your former institution, you may choose to try to fulfill the A&S one-year requirement by:**

**A. Contacting the Chair of the Department of Modern Languages or the Department of Linguistics to see if your language competency level can be tested at Ohio University.** If so, and your results place you at the 113 or 213 level of that language, you must complete that course.

**B. If you place above 113 or 213 of the language, that level is considered met.** The College will waive the deficiency in credit hours for the

language requirement, although the course maintains its 3 credit value.

## College Requirements

If you are in Arts and Sciences you are encouraged to become familiar with this section of the catalog, which relates specifically to the College of Arts and Sciences, as well as to the Guidelines and General Information section at the front of the catalog. These pages contain information essential to your being a responsible and well informed student at Ohio University.

The following list outlines the Arts and Sciences degree information presented in the sections that follow:

### Advising

### Degree Requirements (B.A., B.S.)

### Second Bachelor's Degree

### Degree in Absentia

### Major Requirements

### Double Major

### Minor Requirements

### General Education Requirement

### Foreign Language Requirement

### Humanities Area Requirement

### Social Sciences Area Requirement

### Natural Sciences Area Requirement

### Level of Study Requirement

### Single Application of Credit

### Credit, Noncredit, and Pass/Fail Credit

### Transient Study

### Teacher Licensure

### Education Abroad

### Advising

All departments in the College of Arts and Sciences have an undergraduate advising coordinator who, with the help of other faculty in the department, ensures that every student is assigned an advisor for academic counselling. It is not the advisor's responsibility, however, to plan your schedule or to guarantee that program requirements are being met—these are your responsibilities.

Every student in the College of Arts and Sciences is assigned an advisor, including undeclared ("undecided") students. It is expected that you will schedule a conference during the advising period during preregistration each quarter. For students with declared majors, your advisor is a faculty member in the department of the major. For undecided majors, an advisor is assigned from Arts and Sciences faculty and administrative staff.

While advisor conferences are particularly encouraged during preregistration, it is recommended that you maintain regular contact for assistance with concerns related to academic and career planning. Any arrangements deviating from the major requirements must be communicated in writing by the department chair or

the undergraduate advising chair to the College Student Affairs office. While an advisor may assist with scheduling, it is ultimately your responsibility to see that program requirements are met. If you have questions or need assistance you are invited to seek help at the College Office of Student Affairs.

To change majors, contact the Office of Student Affairs. An advisor will be assigned or instructions given regarding a new advisor. All other matters pertaining to advisors are administered by the departmental offices.

## Degree Requirements for Bachelor of Arts (B.A.) and Bachelor of Science (B.S.)

General requirements for a B.A. or B.S. are (a) a minimum of 192 quarter hours, including (b) 90 hours of Arts and Sciences coursework above the 199 level; (c) the equivalent of two years of college-level foreign language; (d) at least 18 hours each of humanities, social sciences and natural sciences; (e) General Education Requirements—Tiers I, II, III—and (f) all requirements stipulated by the department for the chosen major. Minors are optional.

A minimum of 192 quarter hours of credit is required for either a B.A. or B.S. However, you may acquire no more than 72 hours in any one subject for a B.A. and no more than 80 hours in one subject for a B.S. Any hours accumulated beyond the maximum allowed for the major area will necessitate an equivalent increase in the number of total hours required to graduate from Ohio University.

To receive a degree from the College of Arts and Sciences, you must have a minimum 2.0 g.p.a. on all of the following:

- 1 all hours attempted at the college level
- 2 all hours attempted at the college level in the major
- 3 all hours attempted at Ohio University
- 4 all hours attempted at Ohio University in the major.

The graduation g.p.a. is computed after deductions for repeated and noncredit courses have been made. See the "Credit and Grading" section for information on repeated course removal.

Graduation requirements are defined by your catalog of entry and remain in effect for five years from your date of admission to Ohio University. An average course load of 16 hours a quarter is necessary to graduate in four years. Five years after entry, graduation requirements become redefined by the current Catalog.

For specific information involving graduation requirements, including residence requirements (i.e., the minimum

number of credit hours that you must complete at Ohio University), see the "Graduation Requirements—University Wide" section of the Catalog.

### Second Bachelor's Degree

The College of Arts and Sciences awards a B.A. or B.S. only once to a student who completes more than one major within the degree program (e.g., sociology and African American Studies). It is possible, however, to earn both a B.A. and a B.S. (e.g., Spanish and chemistry) or to earn degrees from separate degree-granting colleges (e.g., College of Arts and Sciences and College of Health and Human Services).

University policy requires the completion of a **minimum of 208 quarter hours for the second degree** (i.e., an additional 16 hours beyond the 192 required for the first degree), including all specific requirements for both degree programs. For the guidelines to earning a second bachelor's degree, refer to the Graduation Requirements section.

### Degree in Absentia

To be eligible for in *absentia* privileges, you must first be enrolled in one of the programs listed in item 5 below. To earn a degree in *absentia*, you must have:

- 1 completed 144 quarter hours at Ohio University, including specific requirements for the chosen program
- 2 earned a g.p.a. of 2.0 or better on all work attempted and on all work in the major
- 3 completed all General Education Requirements
- 4 completed all college distribution area requirements, except the 200-level requirement, of which 45 hours must be complete
- 5 completed a full year's work in an accredited school of dentistry, law, clinical laboratory science, medicine, optometry, physical therapy, or veterinary medicine
- 6 been advanced without condition to the second year of training when the professional school's program is for two or more years
- 7 successfully completed the professional program specified.

For the clinical laboratory science program, you must receive the approval of the clinical laboratory science advisor. For any other in *absentia* programs, you must secure a statement from the dean of the College before you enter the professional school granting the degree in *absentia* privilege.

### Major Requirements

The specific requirements for each major, including the preprofessional programs and other special curricula in the College of Arts and Sciences, are listed in the

following pages in the Majors, Minors and Certificates section.

If you are a first-year student in the College of Arts and Sciences, you may enroll in the college as an undecided major; however, you must declare a major once you have earned 90 hours. If you have earned 45 or more hours, you are ineligible to transfer into the College as an undecided major.

Requirements for the four non-Arts and Sciences major programs are determined by the respective colleges.

College policy requires that any major program consist of a minimum core of 36 quarter hours in one subject area, including 16 quarter hours to be taken at the 300–400 level. Most departments require more than 36 hours for the major, and there may be specific departmental requirements. Methods courses for certification in education are not included in hours that apply to the major. Whether you have chosen a traditional or a special curriculum major, you are obligated to fulfill the requirements specified by the department of major which, at presstime, at minimum, requires a 2.0 g.p.a. and at least 24 quarter hours of 2.0 work in the major from Ohio University, with no fewer than 12 of those hours at the 300 level or above. No courses in any major (except extra-departmental requirements, such as chemistry for a biological sciences major) may be applied to the area distribution requirements.

B.A. degree candidates may count a maximum of 72 hours in one subject towards the degree; B.S. candidates may count a maximum of 80 hours. Exceeding this maximum requires adding equivalent hours to the total hours for graduation. Courses in the major that are numbered above 199 are applied to the 90-hours-above-200-level requirement.

To earn a major in an Arts and Sciences discipline, you must be enrolled in the College of Arts and Sciences (except for economics majors, who may enroll in either the College of Arts and Sciences or the College of Business). If you are a student in another college at Ohio University, you may enroll concurrently or consecutively in Arts and Sciences.

### Double Major

For a degree to be granted, you must complete at least one formal major. A second major (or more), an option that any Arts and Sciences student may pursue, requires that all requirements for each major as described in the Majors, Minors, and Certificate Programs section be fulfilled. You will need to complete at least 18 quarter hours of work in each major at Ohio University, including a minimum of 9 hours at the 300 level or above in each of the two departments

while maintaining a 2.0 g.p.a. in each major. No courses in any major (except extra-departmental requirements, such as chemistry for a biological sciences major) may be applied to the area distribution requirements. If you complete more than one major program for the same degree, it will not increase the hours required for Arts and Sciences area requirements or the 192 hours to graduate.

### Minor Requirements

Arts and Sciences students interested in completing a formal minor may choose from the 27 minors offered by the College of Arts and Sciences or select a minor from another college. You must declare the minor for it to be official and fulfill all hour and course requirements for it to be noted on your Ohio University transcript. The minor will not show on the transcript until your degree is conferred.

University policy stipulates that a minor comprise 24 to 35 required hours, including at least two courses at the 300–400 level. In the case of foreign languages, the minimum requirement is 24 hours beyond the 213 level. English courses fulfilling Tier I composition requirements do not count toward an English minor. To fulfill a minor in Arts and Sciences, you must complete a minimum of 8 hours of coursework at Ohio University at the 300–400 level with a grade of 2.0 or above. Within these limits, the distribution of courses is determined by the department as well as other specific requirements. At minimum, a 2.0 g.p.a. is required. In cases where extradepartmental courses required to fulfill your major either nearly or completely duplicate courses for your chosen minor, declaring a minor may not be acceptable. See the Majors, Minors, and Certificate Programs section for specific minor requirements.

### General Education Requirement

The University General Education Requirements (Tiers I, II, and III) are similar to, but lesser in scale than, the Arts and Sciences requirements. You can select courses that, while fulfilling University General Education Requirements, can partially satisfy Arts and Sciences distribution requirements in foreign languages, humanities, social sciences, natural sciences, and courses above the 199 level. The following lists for humanities, social sciences, and natural sciences indicate specifically and without exception the courses accepted for Arts and Sciences credit. Many of these courses also satisfy Tier II requirements.

All courses that fulfill General Education Requirements also apply toward the 192 credit hours needed to graduate from Ohio University, even if they are not Arts and Sciences distribution courses.

Most courses designated for Tier I quantitative skills and freshman composition (including any skills courses needed as prerequisites) apply only to hours for graduation and do not apply to Arts and Sciences distribution requirements.

Arts and Sciences courses that fulfill the Tier I advanced composition requirement at the junior level can apply to distribution areas and, in certain cases, to your major.

Courses designated for Tier III do not fulfill Arts and Sciences requirements except when they are taught by Arts and Sciences faculty when the course contributes to the hours-above-200-level requirement.

Transfer students who receive transfer credit for courses comparable to the composition and quantitative courses of Tier I are considered to have met the Tier I requirement. Transfer students without comparable transfer credit in composition and/or quantitative skills must complete the requirement.

### Foreign Language Requirement

The College of Arts and Sciences requires that all candidates for a B.A. or B.S. degree successfully complete two years of foreign language at the college level or the equivalent. (Transfer students should refer to the "Transfer from Other Universities" section for specific information about the transfer of foreign language credits.) However, the type of degree (B.A. or B.S.) determines how the two-year requirement is completed. These requirements are determined by the degree program and are not the student's choice.

Courses taught at Ohio University that will fulfill the language requirement (see "Modern Languages" in the Courses of Instruction section for a complete description of language courses offered) are the African and Asian languages (Arabic, Chinese, Indonesian/Malaysian, Japanese, and Swahili), classical languages (Greek and Latin), Germanic language (German), Romance languages (French, Italian, and Spanish), and Slavic language (Russian). The first or beginning year of language at Ohio University is represented by the course numbers 111, 112, and 113, while the second or intermediate year is represented by the course numbers 211, 212, and 213.

### Language Placement Table

The language placement table that follows represents the broadest interpretation of the language requirement and thus applies more specifically to the B.A. degree. If your major is designated B.S., use the table as a guide to determine if you qualify for the options described in the Candidates for the B.S. Degree section that follows the table.

The language placement table represents two years of high school language as being equal to one year of college language. The study of a foreign language at Ohio University must begin according to the recommendations listed below. However, if you have completed two or more years of high school language, these recommendations assume there has been thorough foreign language preparation within the last year. If this is not the case, you are strongly advised to enroll first in a lower-level course as preparation to enter the intermediate level.\* Enrolling at a level higher than indicated by the table is not permitted. Bypassing sequential courses is permitted only in accordance with the language placement table, or upon referral to and recommendations by the chair of a respective language department for special consideration:

Years of language in high school	Begin college language at
0–1 year	Course 111
2–3 years	Course 211
4–5 years	Course 213 or 341 (Latin 351)

\* If you find it necessary to repeat high school-level work (111–113) to prepare for the intermediate level, these credits will be applied to the 192-hour graduation requirement but will not fulfill any part of the language requirement. Once the language requirement is completed, any foreign language course that does not duplicate coursework for the requirement or high school work will be applied to the humanities distribution area.

### Candidates for the B.A. Degree

The foreign language requirement for B.A. degree candidates is the successful completion of a two-year sequence of study of one language from level 111 through level 213.

Two years of high school language are considered the equivalent of one year of college language. According to your preference, however, your two years of college-level study may be a language other than the one studied in high school.

#### The B.A. student with:

Zero to one year of high school language must complete two years of one foreign language at the college level.

Two to three years of one language in high school must successfully complete the intermediate level (i.e., second year) 211–213, of the same language or, if you prefer, two years (111–213) of a language different from the one studied in high school.

Four or more years of one foreign language in high school must complete level 213 or 341 or any other higher level course in the same language.

Four years of Latin in high school may complete LAT 351 rather than LAT 213. LAT 351 is recommended.

### Candidates for the B.S. Degree

If you are earning a B.S. degree, you may meet the foreign language requirement through two years of college language study or the equivalent. This policy allows for several interpretations.

#### The B.S. student with:

Zero to one year of high school language is allowed two choices—the completion of a full sequence of study in one language (two years, 111–213) or one year each of study at the beginning level in two different languages (two years, 111–113, 111–113).

Two to three years of high school language is allowed two choices—the completion of the intermediate level of the same language (211–213) or the completion of the beginning year of a second language (111–113).

Four or more years of high school language (i.e., four years of the same language or two years each of two different languages), may consider the language requirement met.

### Candidates for Either Degree

For the limited number of major programs that offer both B.A. and B.S. degrees (see listings in the Majors, Minors, and Certificate Programs section), you may choose which degree to pursue. See the above section for the respective language requirements.

### Transfer Students

Please refer to the "Transfer from Other Universities" section for specific information about the transfer of foreign language credits.

### International Students

For international students whose first or native language is not English, the foreign language requirement may be satisfied by demonstrating competence in English. This must be approved by the director of the Ohio Program of Intensive English (OPIE), and generally requires the successful completion of at least one course in English as a foreign language. In some cases, the chair of the Department of Linguistics may certify that you have achieved an acceptable level of ability in a non-English language. You may also satisfy the foreign language requirement by taking a foreign language other than your own first language at Ohio University.

Enrollment in the beginning or intermediate level (under 300) of your own first language(s) will be considered a noncredit course.

### Humanities Area Requirement\*

The humanities requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** African American Studies 110, 150, 210, 211, 250, 310, 350, 352, 353, 355, 356
- b** Art History
- c** Classical Archaeology except 211, 212, 213
- d** Classics in English
- e** Dance 170, 351, 352, 353, 370, 471, 472, 473
- f** English except 150, 151, 152, 153, 153A, 1538, 451, 452
- g** Foreign language courses other than those used to complete the foreign language requirement
- h** Humanities 107, 108, 109, 117, 307, 308, 309
- i** History 121, 122, 123, 314A-F, 328, 329A-C, 330, 331, 350A, 351, 352, 353A-B, 354A, 354B, 356A-C, 357, 360A-B, 370, 389
- j** International Literatures in English-International Literature: Linguistics and International Literature: Modern Languages
- k** Interdisciplinary Arts
- l** Interpersonal Communication 351, 352, 353
- m** Modern Languages 370J
- n** Music / MusicLiterature 120, 124, 125, 150, 321-3, 427, 428
- o** Philosophy except 120
- p** Theater 150, 270, 271, 272
- q** Women's Studies 100, 200, 250, 400
- r** World Religions

#### **Social Sciences Area Requirement\***

The social sciences requirement may be met by a selection of 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** African American Studies 101, 202, 220, 225, 340, 341, 360, 368, 440
- b** Anthropology except 201, 492, 496
- c** Business Law 255, 442, and 475
- d** Classical Archaeology 211, 212, 213
- e** Economics
- f** Geography except those listed under natural sciences (see below)
- g** History except those listed under humanities (see above)
- h** International Studies 103, 113, 121
- i** Linguistics
- j** Political Science
- k** Psychology except 120, 221, 226, 312, 314, 321
- l** Social Work
- m** Sociology

#### **Natural Sciences Area Requirement\***

The natural sciences requirement may be met by selecting 18 quarter hours from two or more departments, excluding the major, with at least 8 hours in one area, from the following:

- a** Anthropology 201, 346, 447, 448, 492, 496
- b** Astronomy
- c** Biological Sciences except 217
- d** Chemistry except 115
- e** Computer Science except 120, 135
- f** Environmental and Plant Biology except 217
- g** Geography 101, 202, 302, 303, 304, 305, 315, 316, 358, 406, 407, 411, 417, 418, 476
- h** Geological Sciences
- i** Mathematics except 101, 102, 109, 113, 115, 117, 118, 120, 121, 122, 320, 320L
- j** Physical Sciences
- k** Psychology 221, 226, 312, 314
- l** Physics

Note: Methods courses are not applicable to area requirements.

- \* These listings must be used as the official guide for the completion of the Arts and Sciences area (distribution) requirements. Exceptions to the 18-hour Arts and Sciences area distribution requirements will be made only under the most unusual of circumstances and by petition only. Consideration for inclusion of courses not listed is not made on an *ad hoc* basis but requires formal approval of the Arts and Sciences Curriculum Committee.

Some courses from these categories may also be applied to the University Tier II requirements. However, the three Arts and Sciences area categories differ in scope from the five Tier II groupings (Humanities and Fine Arts, Natural Sciences and Mathematics, Applied Sciences and Technology, Social Sciences, and Third World Cultures). If you wish to select a course that will apply to both the Arts and Sciences and Tier II requirements, take care to choose a course that has been approved for the desired category in both the College and the University requirements. (The list of courses approved for each of the Tier II categories appears in the Graduation

Requirements section of the catalog.) Most courses that can fulfill Tier I quantitative skills and freshman composition requirements and the Tier III requirement do not apply to the Arts and Sciences area distribution requirements. Exceptions include MATH 163A, 163B, and PSY 221.

#### **Candidates for the B.S. Degree**

If you are earning a B.S. degree, you may meet the foreign language requirement through two years of college language study or the equivalent. This policy allows for several interpretations.

#### **The B.S. student with:**

Zero to one year of high school language is allowed two choices—the

completion of a full sequence of study in one language (two years, 111-213) or one year each of study at the beginning level in two different languages (two years, 111-113, 111-113).

Two to three years of high school language is allowed two choices—the completion of the intermediate level of the same language (211-213) or the completion of the beginning year of a second language (111-113).

Four or more years of high school language (i.e., four years of the same language or two years each of two different languages), may consider the language requirement met.

#### **Candidates for Either Degree**

For the limited number of major programs that offer both B.A. and B.S. degrees (see listings in the Majors, Minors, and Certificate Programs section), you may choose which degree to pursue. See the above section for the respective language requirements.

#### **International Students**

For international students whose first or native language is not English, the foreign language requirement may be satisfied by demonstrating competence in English. This must be approved by the director of the Ohio Program of Intensive English (OPIE), and generally requires the successful completion of at least one course in English as a foreign language. In some cases, the chair of the Department of Linguistics may certify that you have achieved an acceptable level of ability in a non-English language. You may also satisfy the foreign language requirement by taking a foreign language other than your own first language at Ohio University.

Enrollment in the beginning or intermediate level (under 300) of your own first language(s) will be considered a noncredit course.

#### **Level of Study Requirement**

##### **(Hours at the 200 level or above)**

Within the total hours applied to the degree, at least 90 quarter hours of Arts and Sciences courses must be above the freshman level (numbered above 199). Arts and Sciences courses are defined as courses listed earlier in this section under humanities, social sciences, and natural sciences, and include foreign languages, courses from the department major, and courses taught by faculty in the College of Arts and Sciences intended to meet the junior composition or Tier III requirement. University Professor (UP) courses taught by Arts and Science faculty will count only if they are applicable to any of the three area requirements.

Economics majors may apply QBA 201 and, with departmental approval, other advanced courses in statistics to the Arts and Sciences 200-level requirement for a maximum of 15 hours.



Non-Arts and Sciences courses are almost always considered electives and not counted toward the level of study requirement. Rather, they apply toward the 192-hour requirement for graduation.

### Single Application of Credit

Excluding the exceptions listed below, no course may satisfy more than one of the area requirements in foreign language, humanities, social sciences, or the major requirement. For example, a philosophy major may not apply any courses in philosophy toward the humanities requirement. Neither courses that fulfill freshman General Education Tier I requirements nor Tier III classes will apply to the distribution area requirements. Exceptions are:

Courses, including MATH 163A, 163B, and PSY 221, will fulfill the Tier I quantitative requirement as well as the natural science area.

Courses required for a major, but outside the major department (extra-departmental requirements) will be counted toward the area requirements except in the case of interdisciplinary majors (i.e., international studies, classical studies) where required courses normally do not apply to the distribution areas.

Courses required for a minor will be counted toward the area requirements, except for non-Arts and Sciences minors. Courses at the beginning and intermediate levels of a foreign language for students majoring in that foreign language may fulfill the language requirement since the major is defined as including only language courses above the intermediate level.

Junior-level advanced composition courses offered by departments within the College of Arts and Sciences apply to the distribution area requirements except when they are required for the major (e.g. ENG 307J or HIST 301J).

### Hours of Credit (CR), Pass/Fail Courses, and Noncredit Allowed

#### Credit (CR) Hours

Hours of coursework that are offered for credit (CR) may be applied toward requirements, but are limited to 15 hours total. (Do not confuse credit (CR) with pass/fail (P/F).

#### Pass/Fail Hours

Courses taken pass/fail are limited strictly to electives or courses that fulfill hours to graduate only and may total no more than 20 hours. No course taken pass/fail may fulfill any requirement, except the total-hours requirement. For an Arts and Sciences student, this policy effectively restricts taking any pass/fail courses that apply to your foreign language, humanities, social sciences, natural

sciences, major, minor, 90-hours-above-200, and special curriculum requirements.

See the Pass/Fail section in the Credit and Grading section of the catalog for further information.

### Noncredit Hours

Noncredit courses do not count toward the 192-hour requirement. Noncredit courses are those numbered below 100; courses completed out of sequence, i.e., a lower-level course taken after completing an advanced course in the same department; certain technology courses; developmental courses (such as ENG 150 or MATH 101) in excess of 8 credit hours; skills courses such as UC 110 and 112 in excess of the eight-hour limit; credits duplicated by the repetition of coursework; and courses taken for audit. See the Guidelines and General Information section for details about credit and grading, repeated courses, and residence requirements that affect hours required.

### Transient Study

Transient study is defined as earning credit hours at another institution for the purpose of fulfilling specific Ohio University or College of Arts and Sciences requirements. (Transfer study refers to credits you transfer from another institution when you are admitted to Ohio University.) See "Transferring Credit" in the Admissions section.

If you are a senior and wish to earn credit by transient study, remember that you must complete your final 16 hours at Ohio University if you have previously earned 96 or more hours in residence. If you have fewer than 96 hours earned here, you must complete a final residence requirement of 48 hours, including at least 12 hours of 300–400 level work from Ohio University in your major. Any minor must include 8 hours of courses at the 300–400 level from Ohio University.

Before registering for courses at another institution to earn credit by transient study, you must secure approval. A visit to the Office of Student Affairs is essential to determine beforehand the value of the intended coursework to your progress toward graduation. You may need a catalog and/or course description in order to complete the petition/ approval form. Finally, after receiving permission to transfer hours from another institution, you must earn a C- or better, in order for the hours to be applied to your record here. Keep in mind that while credits are transferrable, grades are not. Your g.p.a. will not be affected by transient study hours.

See major requirements section for information regarding Ohio University credits

### Teacher Licensure

Students in the College of Arts and Sciences may meet the requirements for licensure to teach at the secondary- school level by completing requirements for either the B.A. or the B.S. degree program and completing any necessary requirements through the College of Education. Information about requirements is available from department representatives in the College of Arts and Sciences. If you are interested in teaching, begin planning for your required courses as early as possible.

### Education Abroad

Among the many study abroad opportunities offered by Ohio University are more than a dozen programs coordinated by the College of Arts and Sciences. For information about education abroad, please refer to the "University-Wide Academic Opportunities" section. See also Global Learning Community If you receive financial aid, plan to meet with your financial aid advisor at least one full quarter before you intend to study abroad.

### Language Programs

Intensive French Abroad, Tours, France, spring quarter; Intensive German Abroad, Salzburg, Austria, spring quarter; Intensive Spanish Abroad, Merida, Mexico, winter quarter; Greek in Greece, on-site program in Greece and Turkey, spring quarter; Japanese Culture and Language Abroad, Chubu University, Nagoya, Japan, fall quarter; Russian Study Abroad, Moscow, Russia, spring quarter; Spanish Study Abroad, Universidad Pública de Navarra (UPNA), Pamplona, Spain, fall, winter and/or spring quarters (1, 2, or 3 quarters), as well as a summer program. Further language learning opportunities include a summer intensive study of French in Quebec and an advanced French language and literature program in Martinique during the winter intersession.

### Student Exchange Programs

Odense University Exchange Program, Odense, Denmark, fall quarter or one academic year; Johannes Gutenberg University Exchange Program, Mainz, Germany, one academic year; University of New Castle, New Castle, Australia, one semester or one academic year; University of Wales Exchange Program, Swansea, Great Britain, one academic year, or one semester.

### Other Arts and Sciences Programs

Global Studies in Plant Biology, ecological and geographic themes and locations change from year to year, but the program takes place fall-winter intersession and summer sessions; Latin American Study Abroad Program, Cuenca, Ecuador, spring quarter; London Summer Study Program, England, three weeks.

## Majors, Minors, and Certificate Programs

This section outlines the specific requirements for every program in the College of Arts and Sciences: traditional majors, special curricula, minors, and certificate programs, so that you can investigate the full range of majors and degree options available in the college.

Special curricula are four-year degree programs structured to help you prepare for a specific application of your undergraduate program to a selected educational or career objective. To be recognized as having completed a special curriculum and to meet graduation requirements, you must complete the entire curriculum as listed, plus additional courses as necessary to reach a total of 192 hours and meet both University General Education Requirements and the Arts and Sciences degree requirements. Should you elect not to fulfill the special curriculum, you must complete all requirements for another major to graduate.

Majors are arranged alphabetically by department and are listed by complete name (e.g., Forensic Chemistry).

### African American Studies

#### African American Studies Major (B.A.)

##### Major code BA4903

Students completing the major program receive a Bachelor of Arts degree with a major in African American studies. Courses include communications, education, political science, psychology, social sciences, art, literature, and music as they reflect and provide insight into the African American experience.

Students can also work in close collaboration with their advisors in developing other focal areas in a range of fields including: Health and Human Services, Business Administration, African Studies, Latin American Studies, Environmental Studies, Social Work, Rural Sociology, Broadcasting, Journalism, and Multimedia Studies.

The minimum grade-point average for graduation is a 2.0 (C) in all courses attempted. A grade of C is also required in each major course.

Advising is an essential element in the African American Studies Program. Each student works closely with a faculty member whose expertise and interests are related to the student's academic pursuits.

The requirements for a major consist of 56-quarter hours, including:

AAS 101 or AAS 202	African Amer. History I African Amer. History II	4 4
AAS 106	Intro to Afr. Amer. Studies	4
One course from		
AAS 110	Intro to African Amer. Lit.	4
AAS 150	Intro to Black Media	5
AAS 180	Intro to Afr. Amer. Educ.	4

Within the 56 hours, at least 28 must be in one of two focal areas—either social sciences or arts and humanities. The focal area must include at least one course from four of the groups below and at least 16 hours at or above the 300 level.

### Social Sciences Groups

#### History

AAS 225	Hist. of the Black Worker	4
AAS 235	Comp. Neocolonialism	4
AAS 254	History of Injustice in U.S.	5
AAS 340	The Black Community in Post-WWII	4
AAS 364	Comp. Study of Injustice	4

#### Sociology/Psychology

AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 430	Social Theories of Underdevelopment	4
AAS 440	The Black Child	5
AAS 482	The Black Family	4

#### Political Science

AAS 360	Black Politics in U.S.	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4

#### Economics

AAS 432	Third World Natl. Mvts.	4
AAS 460	Social Processes: Third World Urbanization	4

#### Education

AAS 380	Seminar in African American Education	4
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### Arts and Humanities Groups

#### Literature (African American)

AAS 210	African Amer. Lit. I	4
AAS 211	African Amer. Lit. II	4
AAS 310	Contemporary African American Literature	4
AAS 311	African American Lit.: Special topics	4
AAS 411	Literature Seminar	4

#### Literature (Intercultural)

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
AAS 317	Caribbean Literature	4

#### Arts

AAS 250	Found. of African Amer. Arts and Culture	4
AAS 350	African American Arts and Artists	4

#### Music

AAS 355	History of African Amer. Music I: Slavery to 1926	4
AAS 356	History of African American Music II: 1926–Present	4
AAS 357	Black Music Seminar I	3

#### Media

AAS 352	Blacks in Contemporary Cinema	4
AAS 353	Survey of Black Independent Cinema	4

### African American Studies Minor

#### Minor code OR4903

The minor in African American Studies is available to all undergraduate students regardless of major. The requirements consist of a minimum of 28 hours of coursework in one of two options: the minor concentration or the interdisciplinary minor. The minor concentration in



either the social sciences or the arts and humanities consists of a minimum of 28 hours, including at least 20 hours in the chosen area, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

The interdisciplinary concentration requires at least one course from each of the two focal areas, at least two additional courses at the junior or senior level, AAS 101 African American History I or AAS 202 African American History II, and AAS 106 Introduction to African American Studies.

## African Studies

See International Studies.

## Anthropology

### Anthropology Major (B.A.)

#### Major code BA4252

Anthropology may be defined broadly as the scientific study of humankind. This discipline has two major foci: humans as biological organisms and as cultural beings. This department concentrates on three of Anthropology's subfields: biological anthropology, cultural anthropology, and archaeology. Anthropology is a holistic, comparative, and functional discipline that provides a broad framework through which human activities, adaptations, and changes may be meaningfully interpreted in time and in space. Much of anthropology deals with non-Western cultures.

If you are interested in becoming a professional anthropologist, you can prepare for graduate school in the Department of Sociology and Anthropology. The anthropology major offers training in the methods and results of cultural anthropology, biological anthropology, and anthropological archaeology.

The B.A. in anthropology requires at least 55 hours of anthropology, including:

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
ANTH 202	Intro to World Archaeology	5

#### 4 hours of cultural anthropology selected from

ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 348	Education: Cross-Cultural Perspectives	4
ANTH 349	Life History	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 366	Cultures of the Americas	4
ANTH 371	Ethnology	4
ANTH 372	Cultures of the World	4
ANTH 373*	Perspectives in Anthropology	4
ANTH 375	Culture and Personality	4
ANTH 376	Culture Contact and Change	4
ANTH 377	Peasant Communities	4
ANTH 381	Cultures of Sub-Saharan Africa	4
ANTH 383	Cultures of Latin America	4
ANTH 385	Cultures of Southeast Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
ANTH 387	Pacific Island Cultures	4

ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 460	Kinship	4
ANTH 472	History of Anthropological Thought	4
ANTH 494A	Seminar in Cultural Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

#### 4 hours of biological anthropology selected from

ANTH 346	Intro. to Human Osteology	4
ANTH 355	Medical Anthropology	4
ANTH 373*	Perspectives in Anth.	4
ANTH 391	Primate Social Org.	4
ANTH 447	Forensic Anth.	4
ANTH 448	Blood, Bones, and Violence	4
ANTH 492	Human Evolution	4
ANTH 494B	Seminar in Biological Anthropology	4
ANTH 496	Human Diversity	4
ANTH 499*	Anth. Internship	1-4

#### 4 hours of archaeological anthropology from

ANTH 361	North American Prehistory	4
ANTH 363	Gender in Prehistory	4
ANTH 364	Near East Prehistory	4
ANTH 367	South American Prehistory	4
ANTH 370	Mexican/Central American Prehistory	4
ANTH 373*	Perspectives in Anth.	4
ANTH 378	Human Ecology	4
ANTH 452	Anthropological Archeology	4
ANTH 455*	Seminar in Methodology and Field Research	4
ANTH 465	Field School in Ohio Archeology	5-10
ANTH 494C	Seminar in Archaeological Anthropology	4
ANTH 494D*	Seminar in Human Ecology	4
ANTH 499*	Anth. Internship	1-4

28 additional hours in anthropology, of which 8 hours must be at the 400 level divided between two of the three main areas above

\*when topic is appropriate

You are required to select an advisor from the anthropology faculty; your advisor will help you design an individualized course of study. As your interest shifts, you may change advisors. Nonanthropology courses can be declared as anthropology credit toward the major with your advisor's permission; for example, an interest in ethnoenvironmental and plant biology may lead to environmental and plant biology courses counting as part of an anthropology major. At least 43 hours must be in departmental anthropology courses. You are encouraged to take courses in fields related to anthropology. Courses in environmental and plant biology, biological sciences, geology, geography, history, linguistics, international studies, mathematics, psychology, and sociology may be recommended for students interested in particular specialties.

### Anthropology Minor

#### Minor Code OR4252

A minor in anthropology is available if you wish to add a dimension of non-Western cultures to your education.

Requirements for a minor in anthropology are

ANTH 101	Intro to Cultural Anth.	5
ANTH 201	Intro to Biological Anth.	5
or ANTH 202	Intro to World Archaeology	5

(Both ANTH 201 and 202 are recommended.)

and 16 additional hours in anthropology (including 4 hours at 400 level and 4 additional hours at the 300 or 400 level)

## Art

See School of Art in the College of Fine Arts section for information about selective admission requirements. To earn the B.A. degree in art from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

## Asian Studies

See International Studies or East Asian Studies Certificate Program

## Astronomy

See Physics and Astronomy.

## Bacteriology

See Biological Sciences—Microbiology.

## Behavior

See Biological Sciences or Psychology.

## Biological Sciences

Biology is the study of life and its component parts, from molecules to cells to ecosystems. It encompasses the entire biosphere that is the Earth. The current state of biological knowledge has taken centuries to accumulate, and with modern molecular and other analytical techniques, our understanding of biological processes is growing rapidly. The study of biology encompasses a broad spectrum of careers. These include researchers in the laboratory and field seeking to understand how molecules, cells, organisms, and groups of organisms work; those responsible for the health of all organisms, including humans; those interested in conservation of life and the environment; as well as those who educate others. Each plays a vital role and each needs to have a broad understanding of historical and current biology and modern techniques. The first two years of the biological sciences curriculum provides a solid basis for an understanding of life from the micro to the macro level, as well as in-depth introductions to three unifying topics: cell biology, genetics, and evolution. Specialized curricula at the upper-level include courses designed to prepare students for specific careers, graduate schools, and professional schools. Whichever special curricular track is chosen, the student will graduate with a solid foundation in biological sciences as well as a thorough preparation for biological careers and advanced education.

The common requirements for the B.S. in biological sciences are as follows:

- A minimum of 54 quarter hours earned in biological science (BIOS) coursework. This may require several BIOS electives in addition to the courses listed under each specialized track. The non-major courses: BIOS 100, 103, 203, 204, 220, 225, and 392 do not count.
- At least three upper-level 300-400 level courses in biological sciences must have a laboratory component. (L) indicates BIOS laboratory course or a BIOS course with a laboratory component.

If you plan to attend graduate school, it is strongly recommended that you take BIOS 493 or BIOS 494H (Undergraduate Research) in your junior and/or senior year. See the biological sciences Web page for opportunities in undergraduate research.

Consult your DARS and your academic advisor when choosing courses to fulfill University and College requirements.

Unless otherwise indicated, BIOS departmental courses may be retaken only once.

The following is a list of core science requirements for biological sciences students in the first two years, regardless of specialization (Major code). Exceptions and additional courses are listed under each major code, but the list below is common for most students pursuing a degree in biology.

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
CHEM 151, 152, 153	Fundamentals Chem	15
CHEM 301, 302, or 305-307	Organic Chemistry	6 or 9
PSY 221	Statistics	5
MATH 266A, 266B	Calculus w/ App. Biology	8
PHYS 201-203 or 251-253	Physics	15

Junior and senior-level course requirements are determined by area of specialization.

### Biological Sciences Minor

#### Minor code OR2121

Requirements for the minor in biological sciences consist of a minimum of 27 BIOS credit hours, including

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
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At least one of the following:

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4

Additional graded BIOS coursework at 300 level or above.

Students must have a minimum g.p.a. of 2.0 in BIOS course work taken for the minor.

### Honors Program in Biology

Outstanding students who are not part of the Honors Tutorial College may graduate with Departmental Honors. These students may be in any BIOS area of specialization (major code). Departmental Honors requires that a student:

- Graduate with an overall g.p.a of at least 3.5, *i.e. cum laude*.
- Complete a senior hours research thesis with one of the faculty in the Department (this requires registering for BIOS 494H and 495H).

Graduation with Departmental Honors is a special achievement that offers:

- Special recognition at graduation and on the degree certificate.
- In-depth hands-on research experience in the laboratory of a faculty member.
- Direct and close interaction with a faculty member over the course of an entire year.

### Biological Sciences—Integrated Biology Major (B.S.) Major code BS2121

This B.S. degree program in biological sciences is chosen by students who seek flexibility and breadth in their program. It is suited to students who plan to enter a graduate program in biology or students entering professional schools and includes a minimum of 54 hours in biology.

#### Freshman

BIOS 170(L), 171(L), 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250,251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

#### Sophomore

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9

PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15
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Some graduate or professional programs may require organic chemistry labs CHEM 303, 304 or 308, 309.

#### Junior/Senior

At least one course must be taken from three of the five areas below:

##### 1. Molecular, Cellular, and Developmental Biology

BIOS 463 or CHEM 490, 491	Cell Chemistry General Biochemistry I, II	4 or 7
BIOS 326(L)	Laboratory Genetics	4
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3

##### 2. Physiology and Body Systems

BIOS 342 and 354(L)	Prin Physiology I, Lab	5
BIOS 345 and 346(L)	Human Physiology, Lab	7

##### 3. Form and Function

BIOS 300(L)	Anatomy and Histology	6
BIOS 301(L)	Human Anatomy	6
BIOS 303(L)	Comp. Vertebrate Anatomy	6
BIOS 430(L)	Invertebrate Biol	6
BIOS 435(L)	Entomology	6

##### 4. Evolution, Ecology, and Behavior

BIOS 333	Neural Basis of Behavior	3
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 429(L)	Marine Biology	5
BIOS 431(L)	Limnology	5
BIOS 457	Animal Systematics	4
BIOS 473	Animal Behavior	5
BIOS 475	Sociobiology	3
BIOS 479	Evolution	4
BIOS 481	Animal Conservation Biol	4

##### 5. Plants and Microbes

BIOS 321(L)	General Microbiology	5
PBIO 211	Diversity of Life	5

Two or more additional BIOS electives may be needed to fulfill the 54 credit hour requirement and upper level laboratory requirement for a degree in biological sciences. Choose additional courses from the list above or from any BIOS course at the 300 level or above.

### A student in the Integrated Biology major may pursue one of the following special interests:

**Clinical Laboratory Science and Medical Technology**  
Students in Integrated Biological Sciences or any other biological sciences major track may choose to enter a Clinical Laboratory Sciences internship provided they have taken Microbiology (BIOS 321) and Immunology (BIOS 489A and B). A year spent in a licensed clinical facility qualifies a student to take the American Society of Clinical Pathologists registry exam to become an officially registered medical technologist. This program prepares students for work in hospital laboratories, public health bureaus, and other laboratories concerned with medical diagnosis and investigation. The job market is excellent. Courses taken during the internship may count towards total credit hours in Biological Sciences if the student is registered at Ohio University, but do not substitute for particular course requirements. Students are strongly urged to see a clinical laboratory faculty advisor during their sophomore year if they are interested in this program.

#### Exercise Physiology

A student with an interest in exercise physiology may take courses designed to prepare for graduate studies in exercise or applied physiology. An Integrated Biological Sciences Major may pursue an interest in exercise physiology by taking Human Anatomy (BIOS 301) and Human Physiology (BIOS 345, 346) as Junior/Seniors. Biomechanics (BIOS 352) and Physiology of Exercise (BIOS 445, 446) are additional specialized courses available to students in this field. A student interested in pursuing the field of exercise physiology must see the faculty advisor in that field by the end of sophomore year.

#### Neuroscience

Students who are interested in graduate study in neuroscience; neuroscience research in conjunction with a professional career in medicine, pharmacology, or dentistry; or research technician positions should consider this option. Integrated Biological Sciences Majors interested in this track must see the faculty advisor in the Neuroscience Program at the end of their sophomore year. Specialized neuroscience courses are required in the junior and senior years. Students are strongly encouraged to pursue undergraduate research since neuroscience careers almost exclusively involve research. The Neuroscience Program provides, on a competitive basis, stipend and support for research during the summer of the third year.

### Biological Sciences—Cellular and Molecular Biology (B.S.)

#### Special curriculum; major code BS2520

Cellular and molecular biology are two of the most rapidly growing and exciting areas of modern biology. Progress in these areas is driven by the ongoing revolution in genetics and genomics, and has profound and wide-ranging implications for medicine and for our understanding of the mechanisms of life. This specialization will prepare students for graduate or professional school, and career paths in biotechnology, biomedical research, and related areas. These are fields that are experiencing tremendous growth in employment opportunities both in academia and in the private sector.

#### Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
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CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8
MATH 266A, 266B	Calculus w/App Biology	8

**Sophomore**

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 303, 304	Organic Chemistry Labs	5
PHYS 201, 202, 203	Physics	15
or 251, 252 or 262, 253		

**Junior-Senior**

BIOS 326(L)	Genetics Lab	4
BIOS 426	Molecular Genetics	3
BIOS 427	Mechanisms Gene Regulation	3
CHEM 490, 491	General Biochemistry I, II	7

At least two of the following elective cellular/molecular courses:

BIOS 342, 354(L)	Prin. Physiology I, Lab	5
BIOS 343, 355(L)	Prin Physiology II, Lab	5
BIOS 407	Developmental Biology	4
BIOS 414	Molecular Cellular Neurosci	4
BIOS 424A, B(L)	Virology, Lab	5
BIOS 425	Evolutionary Genetics	4
BIOS 450	Principles of Endocrinology	4
BIOS 489(L)	Microbial Physiology	5
BIOS 422(L)	Microbial Techniques	5
PBIO 450	Biotech, Genetic Eng.	4

**Biological Sciences—Marine, Freshwater, and Environmental Biology Major (B.S.)****Special curriculum; major code BS2126**

The Department of Biological Sciences provides this program for undergraduate majors who are interested in careers studying marine, freshwater or terrestrial organisms and their environments. Courses meet the requirements for admission to graduate programs in marine biology, zoology, ecology, and conservation biology. The program also provides the necessary background for jobs with state and federal agencies (i.e., USDA or EPA) charged with environmental protection, research and monitoring, and information collection. Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate in conjunction with the environmental biology track. For federal job and employment information, see <http://www.usajobs.opm.gov/>

BS2126 includes a minimum of 54 hours in BIOS.

**Freshman**

BIOS 170(L), 171(L)	Intro to Zoology	14
172, 173(L)		
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8
MATH 266A, 266B	Calculus w/App Biology	8

**Sophomore**

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Evolution	4
BIOS 375	Animal Ecology	4
CHEM 301, 302	Organic Chemistry	6
or CHEM 305, 306, 307		
PHYS 201, 202, 203	Physics	15
or 251, 252 or 262, 253		

**Junior-Senior**

BIOS 321(L)	Microbiology	5
or PBIO 211	Diversity of Life	
BIOS 342, 354(L)	Prin of Physiology I, Lab	5
or BIOS 463	Cell Chemistry	or 4
BIOS 343, 355(L)	Prin of Physiology II, Lab	5
or GEOG 201	Environmental Geography	or 4
BIOS 376(L)	Field Ecology	4
or BIOS 429(L)	Marine Biology	or 5
or BIOS 431(L)	Limnology	or 5
BIOS 303	Comp. Vert. Anatomy	6
or BIOS 430(L)	Invertebrate Zoology	
or BIOS 435(L)	Entomology	
or BIOS 465(L)	Ichthyology	
BIOS 491(L)	Internship	3

**Biological Sciences—Microbiology Major (B.S.)****Special curriculum; major code BS0411**

The Department of Biological Sciences provides a program for undergraduate majors who are interested in microbiology. This program provides the necessary background and extensive lab experience to pursue a variety of careers in the areas of: research and product development (e.g. immunology, vaccines, antimicrobials, pharmaceuticals, biotechnology), food and water quality control, microbial ecology, and clinical laboratory science. Graduates of this program are also prepared for further graduate studies in medicine, dentistry, optometry, public health, microbiology or molecular biology. With current interest and advances in molecular biology and genetics, emerging pathogens such as HIV and food-borne illness, the career opportunities and outlook are very good.

Students in this program are encouraged to participate in research opportunities their junior-senior years to prepare for a successful career in research and development.

BS0411 includes a minimum of 56 hours in BIOS.

**Freshman**

BIOS 170(L), 171(L)	Intro to Zoology	14
172, 173(L)		
CHEM 151, 152, 153	Chemistry	15
PSY 221	Statistics	5
or MATH 250, 251	Prob and Statistics	or 8
MATH 266A*	Calculus w/App Biology	8

\*Students who change special curricula (major codes) within Biology will also be required to take MATH 266B.

**Sophomore**

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
or BIOS 385	Microbial Ecology	or 3
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307	Organic Chemistry	9
PHYS 201, 202, 203	Physics	15
or 251, 252 or 262, 253		

**Junior-Senior**

BIOS 486A, B(L)	Immunology, Lab	5
BIOS 489 (L)	Microbial Physiology	5
BIOS 426	Molecular Genetics	3
CHEM 490, 491	General Biochemistry I, II	7

At least 12 hours, including 2 lab courses from:

BIOS 326(L)	Lab Genetics	4
BIOS 385	Microbial Ecology	3
BIOS 422(L)	Microbial Techniques	5
BIOS 423A, 423B(L)	Pathogenic Bacteriology, Lab	5
BIOS 424A, 424B(L)	Virology, Lab	5
BIOS 427	Gene Regulation	3
BIOS 441A, 441B(L)	Parasitology, Lab	5

### Biological Sciences—Pre-Physical Therapy Major (B.S.) Special curriculum; major code BS2507

The biology pre-physical therapy major is designed to meet the pre-requisites of the physical therapy program at Ohio University and at many other institutions. This major is also designed to provide students with a solid background in the life sciences. It should be noted that there are no uniform requirements for physical therapy schools. If you are interested in applying to a particular physical therapy program you will need to consult the school's catalog or Web site for exact prerequisites. For more information about the Ohio University school of physical therapy, see the Physical Therapy listing in this catalog.

BS2507 includes a minimum of 55 hours in BIOS.

#### Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A*	Calculus w/App Biology	4
PSY 101	General Psychology	5
PSY 273	Child Adolescent Psy	4

\*Students who change special curricula (major codes) within Biology will be required to take MATH 266B.

#### Sophomore

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15
PT 259A	Intro to Phys. Therapy	2

#### Junior-Senior

BIOS 301(L)	Human Anatomy	6
BIOS 345, 346(L)	Human Physiology, Lab	7
BIOS 413(L)	Human Neuroscience	4
BIOS 445, 446(L)	Physiology of Exercise, Lab	7
BIOS 446(L)	Phys of Exercise Lab	3
BIOS 463	Cell Chemistry	4

#### Recommended Elective:

PT 259B	Intro to PT-Clinical Exp.	4
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Additional recommended electives that fulfill Tier II and Arts and Sciences distribution requirements and are required by some PT schools:

CLAS 227	Greek and Latin Roots	4
PHIL 101 or PHIL 130	Fund Philosophy Intro to Ethics	4

### Biological Sciences—Pre-Professional Program (B.S.) Special curriculum; major code 2127

The Department of Biological Sciences provides a specialized curriculum for students interested in one of the following:

Pre-dentistry

Pre-medicine

Pre-optometry

Pre-veterinary medicine

While no specific major is required by any of these schools, this curriculum provides students with a degree in Biological Sciences, prepares them for their professional school experience, and fulfills course requirements for entry into most schools. Applicants to these schools are required to take one of the following admission tests: Dental Admission Test (DAT), Medical College Admission Test (MCAT)

Optometry Admission Test (OAT), and either the Veterinary Admission Test (VAT) or Graduate Record Exam (GRE) for veterinary school.

Students are encouraged to choose an academic advisor who specializes in the type of professional school he or she is interested in attending. A student should contact the schools of choice and consult both academic advisor and the department pre-professional advisor for specific course and exam requirements.

BS2127 includes a minimum of 54 hours in BIOS.

#### Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15
PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8

#### Sophomore

BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
BIOS 321(L)	General Microbiology	5
CHEM 305, 306, 307*	Organic Chemistry	9
PHYS 201, 202, 203 or 251, 252 or 262, 253	Physics	15

#### Junior-Senior

BIOS 303(L)	Comp. Vert. Anatomy	6
BIOS 321(L)	General Microbiology	5
BIOS 342, 354(L)	Prin. of Physiology I, Lab	5
BIOS 343	Prin. of Physiology II	5
CHEM 490, 491** or BIOS 463	General Biochemistry I, II Cell Chemistry	7 or 4

\*Many medical and dental schools require organic chemistry labs for admission. Students considering these careers should take

CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab	5 or 6
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\*\*Students considering medical school or veterinary school should take CHEM 490, 491 to fulfill their biochemistry requirement.

Many optometry schools require a psychology course for admission. The following is recommended for students interested in this career track:

PSY 101	General Psychology	5
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### Biological Sciences—Wildlife and Conservation Biology Major (B.S.)

#### Special curriculum; major code BS2515

This track is suitable for students who are interested in careers in the conservation and biology of wildlife. Graduates of this program meet the course qualifications for state and federal civil service registers as ecologist, wildlife biologist, wildlife refuge manager, zoologist, and general biologist. This program also provides training for students planning to go on to graduate school in wildlife biology or an allied discipline such as mammalogy, ornithology, herpetology, animal ecology, animal behavior, and conservation biology.

Tier II social science electives can be chosen to meet the requirements of the Environmental Studies Certificate program. For federal job and employment information, check the following Web site: <http://www.usajobs.opm.gov/>

BS2515 includes a minimum of 56 hours in BIOS

#### Freshman

BIOS 170(L), 171(L) 172, 173(L)	Intro to Zoology	14
CHEM 151, 152, 153	Chemistry	15

PSY 221 or MATH 250, 251	Statistics Prob and Statistics	5 or 8
MATH 266A, 266B	Calculus w/App Biology	8
<b>Sophomore</b>		
BIOS 320	Cell Biology	4
BIOS 325	Genetics	5
BIOS 330	Principles of Evolution	4
CHEM 301, 302 or 305, 306, 307	Organic Chemistry	6 or 9
PHYS 201, 202 or 251, 252 or 262	Physics	10
<b>Junior-Senior</b>		
BIOS 303(L)	Comp. Vert. Anatomy	6
BIOS 375	Animal Ecology	4
BIOS 376(L)	Field Ecology	4
BIOS 491(L)	Internships	3
At least 12 hours in wildlife subjects including at least one lab course from:		
BIOS 471(L)	Ornithology	6
BIOS 474(L)	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481	Animal Conservation Bio	4
BIOS 458(L)*	Biology of Amphibians	3
BIOS 459(L)*	Biology of Reptiles	3
BIOS 465(L)*	Ichthyology*	6
The following 14 hours in PBIO courses:		
PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 435 or PBIO 436 or PBIO 437	Plant Population Biology Plant Community Ecology Ecosystem Ecology	5
*BIOS 465, BIOS 458, and BIOS 459 may be used to fulfill elective requirements for this track, but do not meet federal civil service register requirements as wildlife subjects.		

## Biology

See Biological Sciences or Environmental and Plant Biology

## Chemistry and Biochemistry

Upon completing the requirements for the B.S. degree with a major in chemistry, you are eligible for professional status in the American Chemical Society. Completion of a B.A. degree in chemistry does not qualify you for certification.

Due to changes in standards for teacher licensure in the State of Ohio, the current program in chemistry is subject to change. If you are interested in becoming licensed to teach chemistry at the secondary level, contact the Office of Student Services in the College of Education.

Foreign language requirements should be met with German or Russian. Graduate schools generally require a reading knowledge of one or more foreign languages, with German and/or Russian recommended. Details of Ohio University's M.S. and Ph.D. programs are given in the Graduate Catalog.

All chemistry laboratory courses require a \$45 breakage and supplies card, the unused portion of which will be refunded.

## Chemistry Major (B.S. or B.A.)

### Major codes BS3311, BA3311

The B.S. degree program is chosen by students planning to enter a graduate program in chemistry or work in the chemical industry. Requirements for the B.S. degree include a minimum of 76 hours of chemistry from the following:

CHEM 151-152-153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quant. Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 376	Fund. of Inorganic Chemistry	3
CHEM 476	Mod. Inorganic Chemistry	4
CHEM 489 or CHEM 490-491-492	Basic Biochemistry General Biochemistry	4 or 10

Any two of the following:

CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5

Extrdepartmental requirements include MATH 263A-B-C-D and PHYS 251-252-253, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English composition requirements.

Requirements for the B.A. degree in chemistry include a minimum of 63 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two pairs:		
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. of Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4

One course in biochemistry

A full year's work is required in at least one of the following fields:

Analytical: 241-242 and any two of the pairs 431-434, 432-435, 433-436  
Organic: 305-306-307

Physical: 453-454-455

Biochemistry: 490-491-492

Extrdepartmental requirements include MATH 163 A-B and PHYS 201-202-203, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English Composition requirements.

## Chemistry Minor

### Minor code OR3311

A minor program in chemistry requires a 2.0 overall g.p.a. and completion of at least 29 quarter hours of chemistry coursework, including

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302, 303 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	8 or 9

Any two of the following:

CHEM 241 and 242	Quantitative Analysis	5
CHEM 351 or CHEM 453	Physical Chemistry	4 or 3
CHEM 489 or 490	Biochemistry	4
CHEM 376	Fund. Inorganic Chem.	3

You must have a minimum g.p.a. of 2.0 in chemistry coursework taken for the minor.

### Chemistry—Biochemistry Major (B.S.)

#### Special curriculum; major code B53316

This program serves students who have an interest in biological applications of chemistry as a biochemist or health scientist in medicine, industry, or research; as preparation for graduate studies in biochemistry or another life science such as molecular biology, microbiology, or immunology; or as preparation for combining a career in medicine, dentistry, pharmacy, etc., with research. The curriculum includes all fundamental areas of chemical and biological sciences with emphasis on advanced biochemistry, including biochemical laboratory techniques, instruments, experiment design, and protocols, and requires 56 hours of chemistry, including:

#### Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263 A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14

Arts and Sciences degree and General Education Requirements.

#### Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 201, 202, 203	Intro to Physics	15
BIOS 325	General Genetics	5

Arts and Sciences degree and General Education Requirements.

#### Junior

CHEM 325 or CHEM 431, 434	Instr. Analysis Chem. Separation Meth.	4
CHEM 351	Physical Chemistry	4
CHEM 490, 491, 492	General Biochemistry	10
CHEM 493	Biochemical Techniques	3

Arts and Sciences degree and General Education Requirements.

#### Senior

BIOS 426 or P BIO 450	Biotech. and Genetic Eng.	4
BIOS 342, 343	Prin. of Physiology	6
Elective CHEM 494	Biochemical Research	1–5

### Environmental Chemistry Major (B.S. or B.A.)

#### Special curricula; major codes B53315, BA3315

To prepare for a career in environmental chemistry, you can pursue the regular B.S. or B.A. in chemistry and take some of the following environmentally related courses as electives. The Department of Chemistry and Biochemistry has advisors in environmental chemistry to assist you in planning your studies in the field. See also the environmental degree programs in the Departments of Biological Sciences, Environmental and Plant Biology, Geography, and Geology.

The B.S. degree program is chosen by students seeking entrance into graduate programs in chemistry. Requirements for the B.S. degree in environmental chemistry include at least 78 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6

CHEM 400A	Advanced Organic Lab	2
CHEM 400B	Advanced Inorganic Lab	2
CHEM 453, 454, 455	Physical Chemistry	9
CHEM 456, 457	Physical Chemistry Lab	6
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
CHEM 431	Chem. Separation Meth.	3
CHEM 432	Chemical Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3
CHEM 434	Chemical Separations Lab	1
CHEM 435	Chemical Instrumentation and Electrochemistry Lab	1
CHEM 436	Spectrochem. Anal. Lab	2
CHEM 489 or CHEM 490, 491, 492	Basic Biochemistry General Biochemistry	4 10

#### Extrdepartmental requirements

MATH 263A–B–C–D

PHYS 251–252–253

These courses should be completed by the end of the second year.

Requirements for the B.A. degree in environmental chemistry include at least 53 hours of chemistry from the following:

CHEM 151, 152, 153	Fundamentals of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 301, 302 or CHEM 305, 306, 307	Organic Chemistry Organic Chemistry	6 or 9
CHEM 303, 304 or CHEM 308, 309	Organic Chemistry Lab Organic Chemistry Lab	5 or 6
CHEM 325	Instr. Meth. of Analysis	4
or any two of the following pairs:		
CHEM 431, 434	Chemical Separation Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochemical Anal., Lab	5
CHEM 351 or CHEM 453, 454, 455	Physical Chemistry Physical Chemistry	4 or 9
CHEM 376	Fund. Inorganic Chem.	3
CHEM 476	Mod. Inorganic Chem.	4
One course	Biochemistry	

A full year's work is required in at least one of the following fields:

Analytical: 241–242 and any two pairs of 431–434, 432–435, or 433–436

Organic: 305–306–307

Physical: 453–454–455

Biochemistry: 490–491–492

Extrdepartmental requirements include MATH 163 A–B and PHYS 201–202–203, which should be completed by the end of the second year. ENG 151 and 305J are recommended to meet English Composition requirements.

#### Suggested electives

BIOS 275	Animal Ecology	4
BIOS 221, 222	Env. Microbiology, Lab	6
CHEM 485	Intro to Toxicology	4
GEOG 357	Environmental Law	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
ECON 335	Economics of Energy	4
CHE 461	Environ. Assessments	3
CE 452	Water and Wastewater Analysis	3
GEOG 201	Environmental Geography	4
GEOG 241	Global Issues in Env. Geog.	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4

GEOG 440	Environ. Impact Analysis	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 480	Hydrogeology	4
PBIO 410	Plants and Soil	4
PBIO 425	Plant Ecology	5
POLS 425	Env. and Natural Res. Economics	4

### Forensic Chemistry Major (B.S.)

#### Major code BS3310

Forensic chemistry is the application of chemistry and related sciences to criminal investigation. The program prepares you for work in modern crime laboratories or other law enforcement agencies such as FDA, OSHA, and EPA, or for graduate work in forensic chemistry or forensic sciences. Requirements for the degree include at least 69 hours of chemistry from the following:

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241, 242	Quantitative Analysis, Lab	5
CHEM 305, 306, 307 308, 309	Organic Chemistry, Lab	15
CHEM 351	Physical Chemistry	4
CHEM 431, 434	Chem. Sep. Methods, Lab	4
CHEM 432, 435	Chemical Instrumentation and Electrochemistry, Lab	4
CHEM 433, 436	Spectrochem. Anal., Lab	5
CHEM 485	Intro to Toxicology	4
CHEM 487A	Forensic Chemistry	3
CHEM 487B	Forensic Chemistry Lab	3
CHEM 489	Biochemistry	4

In addition, students must choose to complete all the course for ONE of the options below:

#### Option 1:

CHEM 376	Fund. of Inorganic Chem.	3
CHEM 460	Spectroscopic Methods in Organic Chemistry	3
CHEM 400A	Adv. Organic Chem. Lab	2
CHEM 488A	Topics in Forensic Science I	3

#### Option 2:

CHEM 488C	Forensic DNA Analysis II	3
BIOS 325	General Genetics	5
BIOS 326	Laboratory Genetics	4
PBIO 450	Biotechnology and Genetic Engineering	4

#### Extrdepartmental requirements

LET 100	Intro to Law Enforc. Tech.	3
LET 120	Const., Crim., Civil Law	3
LET 140	Intro to Criminalistics	3
LET 200	Proc., Rules, and Tests of Evidence	4
LET 250	Vice and Narcotic Cont.	3
LET 260	Criminal Investigation	3
MATH 263A, B	Calculus	8
PHYS 251, 252, 253	General Physics	15
BIOS 170, 171	Intro to Zoology	10
BIOS 364	Forensic Biology	4
PSY 221	Statistics for the Behavioral Sciences	5

ENG 151 and 305J are recommended for meeting English composition requirements.

Consult the director, Forensic Chemistry Program, Department of Chemistry and Biochemistry, for advance advising and schedule planning.

\*No credit for CHEM 488A if you already have credit for VICO 222.

### Chemistry—Predentistry Major (B.S. or B.A.)

#### Special curricula; major codes BS3312, BA3312

To major in chemistry and prepare for admission to dental school, you have the option of completing either of two degree programs: one leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult with your advisor. See also the predentistry major listed under Biological Sciences in this section.

Requirements for the B.S. program include 56 hours of chemistry from the following:

#### Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

#### Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15
CHEM 376	Fund. Inorganic Chem.	3

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

#### Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Intro to Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

#### Senior

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6
BIOS 321	General Microbiology	6
BIOS 407	Developmental Biology	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the B.A. program include 56 hours of chemistry from the following:

#### Freshman

CHEM 151, 152, 153	Fund. of Chemistry	15
BIOS 170, 171, 172, 173	Intro to Zoology	14
MATH 163A, B	Intro to Calculus	7
	English composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

#### Sophomore

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

#### Junior

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.



**Senior**

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Chemistry—Premedicine Major (B.S. or B.A.)****Special curricula; major codes BS3314, BA3314**

To major in chemistry and prepare for admission to medical school, you can complete either of two programs: one leading to a B.S. and the other to a B.A. degree. Variations on these programs are possible; consult your advisor. See also the Biological Sciences premedicine major.

Requirements for the **B.S. program** include 56 hours of chemistry from the following:

**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B or MATH 163A, B	Calculus Intro to Calculus	8 or 7
BIOS 170, 171, 172, 173	Intro to Zoology	14
PSY 221	Statistics	5
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Sophomore**

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 251, 252, 253 or PHYS 201, 202, 203	General Physics Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Junior**

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5
BIOS 342, 343	Prin. of Physiology	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Senior**

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Comp. Vert. Anatomy	6
BIOS 407 or BIOS 321	General Microbiology Developmental Biology	6 4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

Requirements for the **B.A. program** include 56 hours of chemistry from the following:

**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 163A, B	Intro to Calculus	7
BIOS 170, 171, 172, 173	Intro to Zoology	14
	English Composition	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Sophomore**

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Lab	6
CHEM 376	Fund. Inorganic Chem.	3
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Junior**

CHEM 325	Instrumental Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Senior**

CHEM 490, 491, 492	General Biochemistry	10
BIOS 303	Compar. Vert. Anatomy	6

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Chemistry—Prepharmacy Major (B.S.)****Special curriculum; major code BS3313**

Completion of the program below will result in a B.S. degree with a major in chemistry. The program is specifically designed to prepare the student for admission into a Doctor of Pharmacy program at an accredited pharmacy school. Graduates of a Doctor of Pharmacy program are eligible to take licensure examinations to become registered pharmacists.

The program listed below is based upon the requirements of the four pharmacy schools in Ohio, but other schools may vary in their requirements. It is the responsibility of the student to ensure that the admission requirements for a particular school are met. Consult your advisor for assistance.

**Unless otherwise indicated, BIOS departmental courses may be retaken only once. Requirements include 53 hours of chemistry from the following:**

**Freshman**

CHEM 151, 152, 153	Fund. of Chemistry	15
MATH 263A, B	Calculus	8
BIOS 170, 171, 172, 173	Intro to Zoology	14

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Sophomore**

CHEM 241, 242	Quantitative Analysis	5
CHEM 305, 306, 307	Organic Chemistry	9
CHEM 308, 309	Organic Chemistry Lab	6
PHYS 201, 202, 203	Intro to Physics	15

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Junior**

CHEM 325	Instr. Methods of Analysis	4
CHEM 351	Physical Chemistry	4
BIOS 325	General Genetics	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

**Senior**

CHEM 490, 491, 492	General Biochemistry	10
BIOS 300 or BIOS 302	Anatomy and Histology Human Anatomy	6 6
BIOS 321	General Microbiology	5

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

## Classics and World Religions

The B.A. degree in classics includes four possible tracks reflecting the range of interests in the field. Each track requires a different balance of study in classics (Greek and Latin) and classical civilization. The B.A. degree in World Religions incorporates several distinct emphasis areas reflecting the modern range of interest in the field.

The department offers courses in Greek, Latin, classical archaeology (CLAR), classics texts in translation (CLAS), and world religions (CLWR). Although there is no specific major in archaeology or classics in English, the Classical Civilization major offers the opportunity to concentrate in either area. The World Religions major also offers a wide choice of coursework upon which to build an individual course of study. In the Courses of Instruction section, look under Classics and World Religions for Classical Archaeology, Classics in English, and World Religions; and look under Foreign Languages and Literature for courses in Greek and Latin.

The department offers two study-abroad programs in alternate years, a 10 week spring program in Greece, and a 10 week fall program in Rome taught jointly by Classics and the Department of Modern Languages. The program in Greece is geared toward intermediate-level students of Greek. While in Greece, you will visit archaeological and historical sites and learn Modern Greek as you continue your study of ancient Greek texts. The program in Rome focuses on the city itself through archaeological survey of the monuments and the analysis of history and literature from the perspective of social history.

### Classical Civilization Major (B.A.)

#### Major code BA5214

The Classical Civilization major consists of: completion of the Latin or Greek language sequence through 213, and a minimum of 48 hours of coursework, including a senior research project. This would include:

A. A minimum of 20 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 300-400 level LAT and GK courses. Of the 20 hours, 12 must be from 3 of the following courses:

CLAS 252	Classical Athens	4
CLAS 254	Rome under the Caesars	4
CLAR 211	Greek Archaeology	4
CLAR 212	Roman Archaeology	4

B. A minimum of 20 hours from 300-400 level CLAS, CLAR, HIST 329B and C, LAT and/or GK courses.

C. 8-10 hours from extradepartmental courses approved in consultation with a Classics faculty advisor in connection with the student's approved course of study.

### Classical Civilization Minor

#### Minor code OR5214

The Classical Civilization minor requires a minimum of 28 hours of coursework in Classics above the 100 level, including:

A. A minimum of 16 hours of coursework from 200 level CLAS and CLAR courses (CLAS 227 not eligible), and/or 200 level LAT or GK courses, including one of the following courses in Greek culture:

CLAS 252	Classical Athens	4
CLAR 211	Greek Archaeology	4

and one of the following courses in Roman culture:

CLAS 254	Rome under the Caesars	4
CLAR 212	Roman Archaeology	4

B. A minimum of 12 hours from 300-400 level CLAS and CLAR courses. No knowledge of the Greek or Latin languages is required for the Classical Civilization minor.

### Greek Major (B.A.)

#### Major code BA5212

Take 28 hours in Greek beyond GK 213, and 24 additional hours from approved CLAS, CLAR, HIST 329B, LAT and/or GK courses.

### Greek Minor

#### Minor code OR5212

Take 12 hours in Greek beyond GK 213, and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

### Greek and Latin Major (B.A.)

#### Major code BA5213

Take a total of 40 hours in Greek and Latin beyond GK and LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329B and C, LAT and/or GK courses.

### Latin Major (B.A.)

#### Major code BA5211

Take 28 hours in Latin beyond LAT 213; and 24 additional hours from approved CLAS, CLAR, HIST 329C, LAT and/or GK courses.

### Latin Minor

#### Minor code OR5211

Take 12 hours in Latin beyond LAT 213 and 12 additional hours from approved CLAS, CLAR, LAT and/or GK courses.

### Suggested electives:

#### Anthropology

ANTH 202	Intro to World Archaeology	5
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#### Art History

AH 320	Greek Art	4
AH 321	Roman Art	4
AH 351	Ancient Architecture	4

#### History

HIST 328	The World of Aristophanes	3
HIST 331	The Ancient Greek Games	4

#### Humanities

HUM 107	Great Books	4
HUM 307	Great Books	4

#### Philosophy

PHIL 310	History of Western Philosophy	5
PHIL 418	Plato	5
PHIL 419	Aristotle	5

#### Political Science

POLS 371	Plato, Aristotle, and Pre-modern Political Thought	5
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### World Religions Major (B.A.)

#### Minor code BA5215

The B.A. degree in world religions incorporates several distinct emphasis areas reflecting the modern range of interest in the field and offers a wide choice of coursework upon which to build an individual course of study.

The World Religions major consists of a minimum of 45 hours of coursework in CLWR, CLAS, or CLAR, of which 16 hours must be at or above the 300 level, other than 490, 491, and 498, and at least two years of study in a language relevant to the chosen emphasis area.

### Required courses:

CLWR 181	Introduction to Religion	4
or CLWR 481	Myth and Symbolism	5
or CLWR 301	Old Testament	5
or CLWR 302	New Testament	
CLAS 231	Human Aspirations among the Greeks and Romans	4
or CLAS 255	Pagan to Christian in Late Antiquity	4

**Two of the following:**

CLWR 311	Islam	4
CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	4

Emphasis area: at least 12 hours of coursework in the ancient Mediterranean or Asia, although other emphasis areas may be developed with advisor or department approval.

**Thesis:**

CLWR 490	Senior Research	2
CLWR 491	Senior Research Writing	4

Extra-departmental courses: at least 1 course (4 hours). (Courses do not count toward the 45 hours in the major, but can fulfill general education requirements).

PHIL 260	Philosophy of Religion	4
GEOG 336	Religious Space and Place	4
ANTH 357	Anthropology of Religion	4
SOC 428	Sociology of Religion	4

**World Religions Minor****Minor code OR5215**

The World Religions minor consists of a minimum of 28 hours in courses under the prefix CLWR, including:

CLWR 181	Introduction to Religion	4
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At least one 300 level course on the Abrahamic religions:

CLWR 301	Old Testament	5
CLWR 302	New Testament	5
CLWR 311	Islam	5

at least one 300 level course about traditions originating in India or China:

CLWR 321	Hinduism	4
CLWR 331	Buddhism	4
CLWR 341	Taoism	4

and at least two classroom courses at the 400 level

**Computer Science****Computer Science Major (B.A. or B.S.)****Major codes BA0701, BS0701**

In the College of Arts and Sciences you may earn a B.A. or a B.S. in Computer Science. The Russ College of Engineering and Technology awards a Bachelor of Science in Computer Science.

\*The B.A. requires successful completion of the following courses:

CS 240A, B, C	Intro to Computer Science	13
CS 265	Computer Ethics	1
EE 102	Intro to Computer Engineering	3
EE 395A	Intermediate Electrical & Computer Engr Design Exp.	4
CS 300	Intro to Discrete Structures	5
CS 320	Organization of Programming Languages	5
CS 361	Data Structures	5
CS 404	Design and Analysis of Algorithms	5
CS 406	Computation Theory	5
CS 442	Operating Systems and Computer Architecture I	5
CS 456	Software Design and Devel	5
MATH 263A,B,C,D	Calculus	16

The B.S. requires that you complete the B.A. requirements as well as

Two additional 400 level computer science courses

One statistics course (OR 401, PSY 221, ECON 381, COMS 301, or EE 311)

One of the following science sequences

CHEM 151, 152, 123	Fund. of Chemistry	14
CHEM 151, 152, 153	Fund. of Chemistry	15
PHYS 251, 252, 253	General Physics	15

Plus an additional laboratory science course from CHEM, PHYS, PBIO, or BIOS. The additional lab course must be 1) in a science other than the sequence chosen above, and 2) a required course for majors in that discipline.

**All computer science majors in the College of Arts and Sciences must complete the appropriate Arts and Sciences foreign language requirement.**

**\*You must earn an overall GPA of 2.0 or better in computer science courses, including EE courses, as well as in the required extra-departmental courses, i.e. mathematics, chemistry, and physics.**

**Criminology**

See Sociology—Criminology Major.

**Dentistry**

See Biological Sciences or Chemistry, Pre dentistry Major.

**Drama**

See Theater

**East Asian Studies Certificate Program**

The East Asian Studies Certificate is open to students from any major. It will provide undergraduates with a broad understanding of East Asia as well as with language skills applicable for a wide variety of professions. The curriculum, involving four University colleges and many disciplines, calls for the completion of a two-year sequence of one East Asian language (these credits do not count toward the certificate), 8 hours of required courses, and 24 hours of elective courses, for a total of 32 hours.

**Prerequisites**

The first two years of an East Asian language. *Students demonstrating ability can enter at upper levels, as appropriate.*

**Chinese:**

CHIN 111-113	Elementary Chinese
CHIN 211-213	Intermediate Chinese

**Japanese:**

JPN 111-113	Elementary Japanese
JPN 211-213	Intermediate Japanese

**Required courses—8 hours****Introductory course:**

HIST 246	Modern Asia	4
or POLS 342	East Asia in World Politics	4

**Capstone course:**

HIST 449	Studies China-Japan (U.S. in E. Asia)	4
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The prerequisite hours in history and political science will be waived for certificate students who complete the upper level East Asian language series.

**Elective courses**

To encourage the widest exposure possible, you will receive credit for no more than two courses in the same discipline (not including the introductory and capstone courses), with the exception of the upper level language courses, which may total 12 credits.

AH 214	Arts of Non Western Countries	4
AH 330	Arts of the Orient	4
AH 341	History of Chinese Art	4
AH 342	Art of 20th Century China	4

AH 343	History of Japanese Art	4
AH 435	Survey of Art of 20th C. China	4
AH 440	Survey of Chinese Art	4
CHIN 311-313	Advanced Chinese	12
CLWR 331	Buddhism	4
CLWR 341	Taoism	4
ECON 476	Econ of Korea, Japan and South Eastern Asia	4
FILM 421	International Film (Chinese Films)	4
FILM 422	International Film (Development of Chinese Films)	4
GEOG 131	Globalization and the Developing World	4
GEOG 329	World Economic Geography	4
GEOG 338	Southeast Asia	4
HIST 346C	Ancient China	4
HIST 346D	Imperial China	4
HIST 346E	China's Past Century	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
JPC 250	Japanese Lang. and Culture	4
JPC 450	Japan: A Sociocultural Interpretation	4
JPN 311-313	Advanced Japanese	12
JPN 411-413	4th Year Japanese	12
JOUR 466	International Media	4
MGT 486	Business World in Asia	4
POLS 230	Intro. to Comparative Politics	4
POLS 445	Gov. and Politics of Japan	4
SOC 430	Sociology of Organizations	4
SOC 465	Social Change	4

## Ecology

See Biological Sciences or Environmental and Plant Biology.

## Economics

### Economics (B.A.)

#### Major code BA4221

Two opportunities are open to students interested in majoring in economics: a liberal arts program in the College of Arts and Sciences and a business economics program in the College of Business.

To major in economics in the College of Arts and Sciences, you must complete the B.A. degree requirements of the college and the following program to include a minimum of 40 hours of economics:

MATH 163A	Intro to Calculus	4
40 hours of economics, including:		
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 381	Intro to Econ. Statistics and Econometrics	4
ECON 385 or ECON 482	Intro to Econ. Methodology and Research Topics in Econometrics	4

If you have definite career goals, you are encouraged to follow a specific track within the economics major. A track identifies electives that are most relevant to a given career. Additional information is available from the Department of Economics

#### Courses for the prelaw track

ECON 213	Current Economic Problems	4
ECON 316	Economics and the Law	4

ECON 332	Industrial Organization	4
ECON 334	Econ. and Antitrust Law	4
ECON 337	Govt. Reg. of Business	4

#### Courses for the policy analysis track

ECON 213	Current Economic Problems	4
ECON 312	Economics of Poverty	4
ECON 313	Econ. of the Environment	4
ECON 315	Economics of Health Care	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4

#### Courses for the business economics track

ECON 305	Managerial Economics	4
ECON 320	Labor Economics	4
ECON 332	Industrial Organization	4
ECON 337	Govt. Reg. of Business	4
ECON 340	International Trade	4
ECON 360	Money and Banking	4

### Economics Minor

#### Minor code OR4221

A minor in economics consists of a minimum of 28 credit hours in economics including

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4

At least two other courses at the 300 level or above

### Economics Pre-Foreign Service Major (B.A.)

#### Special curriculum; major code BA4223

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

### Economics—Prelaw Major (B.A.)

#### Special curriculum; major code BA4222

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed; as a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see Law in this section of the catalog.

## English

The Department of English offers majors in English, creative writing, prelaw, and theology. If you are an Arts and Sciences student interested in becoming licensed to teach English at the secondary level (middle school or high school), please seek assistance at the department office, Ellis 360, to meet with English department faculty knowledgeable about English education. Together you can plan how to complete the licensure requirements listed under Integrated Language Arts in the College of Education section of this catalog.

The department also offers Arts and Sciences students who qualify the opportunity to take an intensive 60-hour two-year major in tutorial form alongside the Honors Tutorial College English majors. Tutorial seminars start each September. Students must have a high degree of self-motivation and have excellent capacities for the study of English literature. If interested, apply to the departmental director of the Tutorial Program through the department office.

### English Major (B.A.)

#### Major code BA5231

The major requirement for the literature-based B.A. degree consists of at least 56 hours above 199, including:

Two of the following three:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4
ENG 301 or ENG 302 or ENG 303	Shakespeare: Histories Shakespeare: Comedies Shakespeare: Tragedies	4

Two of the following three:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit 1500–1660	4
ENG 313	English Lit 1660–1800	4
ENG 314 or ENG 315	English Lit 1800–1900 English Lit 1900–Present	4

Two of the following three:

ENG 321	American Lit. to 1865	4
ENG 322	American Lit. 1865–1918	4
ENG 323	American Lit. 1918–Pres.	4
ENG 351 or ENG 352 or ENG 353	Hist. of the English Lang. Dev. of Amer. English Struct. of Amer. English	4
ENG 399	Literary Theory	4
ENG 460	Literary Topics	4
ENG 464 or ENG 465 or ENG 466	Major English Authors Major American Authors Major Intl. Authors	4

Two 300- or 400-level electives

ENG 307J is a prerequisite for ENG 399 and consequently for ENG 460, 464, 465, and 466. You are encouraged to satisfy your Tier I junior composition requirement with 307J. Because a "J" course taken to satisfy the Tier I requirement will not count toward hours in the major, 307J is not listed with other major requirements.

### English Minor

#### Minor code OR5231

The English minor consists of a minimum of 28 hours above 199, including

Two of the following:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4

One of the following:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit 1500–1660	4
ENG 313	English Lit 1660–1800	4
ENG 314	English Lit 1800–1900	4
ENG 315	English Lit 1900–Present	4

One of the following:

ENG 321	American Lit. to 1865	4
ENG 322	American Lit. 1865–1918	4
ENG 323	American Lit. 1918–Pres.	4

Three additional courses above 299

### English—Creative Writing Major (B.A.)

#### Special curriculum; major code BA5232

By combining selected creative writing courses with the regular English major, you can complete a special program in creative writing. To major in creative writing, you will take 16 hours of creative writing, 12 of which will be in addition to the 56 hours required for an English major, and 4 of which will be 481 or 482 or 483 instead of 460.

### English—Prelaw Major (B.A.)

#### Special curriculum; major code BA5234

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree in English (BA5231, BA5232) and take relevant electives in other schools and departments. Consult your faculty advisor. Law schools prescribe no special curriculum. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated advisors assigned to help students interested in law careers. For further information, see "Law" in this section of the catalog.

### English—Pretheology Major (B.A.)

#### Special curriculum; major code BA5233

If you plan to enter a theological seminary or do graduate study in religion, it is recommended that you take a broad program, including the following (with suggested minimum quarter hours): philosophy (12); courses on the texts and history of religions (15); English composition and literature, world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements for the Bachelor of Arts degree and the University General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Department of History or Philosophy.

## Study of the Environment

The study of the environment includes the physical nature of the planet as well as plant and animal interactions involving other living organisms, space, land, and water. The Departments of Biological Sciences, Chemistry and Biochemistry, Environmental and Plant Biology, Geography, and Geological Sciences offer programs for preparation in the study of the environment. These programs allow you to develop a fundamental knowledge of the nature of basic environmental parameters; a sense of the complex interactions of living organisms, including humans, on those parameters; and a basis for approaching solutions to problems resulting from this impact. To major in the study of the environment at Ohio University, choose a discipline for intensive investigation (biological sciences, chemistry, environmental and plant biology, geography, geological sciences) and, in consultation with an advisor in that department, develop a program to meet your goals.

The following degree programs are offered:

- 1 Preparation for Environmental Biology (Biological Sciences Emphasis)

- 2 Preparation for Environmental Biology (Plant Biology Emphasis)
- 3 Preparation for Environmental Chemistry
- 4 Preparation for Environmental Geography
- 5 Preparation for Environmental Geology

In addition, the Department of Geography offers an environmental prelaw major.

For the specific requirements of each program, refer to the respective department's listing in this section of the catalog.

The College of Arts and Sciences sponsors the undergraduate Environmental Studies Certificate Program for students who are interested in environmental studies but do not wish to major in the field. The program is available to students in any major within the University. See the Environmental Studies Certificate Program listing in this section for requirements.

## Environmental and Plant Biology

For students interested in careers in plant biology, plant pathology, biotechnology, environmental biology, natural resources, conservation, field biology, agronomy, plant breeding, freshwater biology, or cell biology, the Department of Environmental and Plant Biology offers major programs in plant biology, environmental biology, field biology, and cell biology and biotechnology, and a research/study abroad program spotlighting different physiographic regions and their plant life. (See Global Studies in Plant Biology.)

### Plant Biology Major (B.A. or B.S.)

#### Major codes BA2111, BS2111

The B.A. degree in plant biology is designed for students interested in the plant sciences who desire a broad liberal education. The flexibility in this program allows for either a minor or second major in another discipline such as economics, business administration, computer science, anthropology, sociology, geography, geological sciences, or biological sciences. If you plan to do graduate studies in plant biology or a related biological science, a B.S. degree (see below) would be more appropriate. Consult a departmental advisor for assistance in selecting a program to prepare you for an advanced degree.

Requirements for the B.A. degree require a minimum of 40 PBIO credits, including the following:

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2

Additional PBIO courses at 200 level or above to total at least 40 hours, but no more than 72. PBIO 490 credits do not count toward the 40-credit requirement, and a maximum of 2 hours of PBIO 404 may count toward this requirement.

#### Recommended departmental elective:

PBIO 418	Writing in the Plant Sciences	4
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#### Extrdepartmental requirements

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 15
BIOS 171, 173	Intro to Zoology	6

One course from the following:

MATH 163A or MATH 263A or MATH 266A*	Intro to Calculus Calculus Calculus with Bio App.	4 4 4
MATH 250	Intro to Prob. and Stat.	4
CS 210	Programming in C	5
PSY 120	Elem. Statistical Reasoning	4

\*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

Requirements for the B.S. degree require a minimum of 52 PBIO hours, including the following:

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 404	Undergraduate Research	2

Additional PBIO credit hours at 200 level or above to total at least 52 hours, but no more than 80. A maximum of 8 hours of PBIO 404 and 490 combined may count towards the 52-hour requirement.

#### Recommended departmental elective:

PBIO 418	Writing in the Plant Sciences	4
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#### Extrdepartmental requirements:

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6
BIOS 171, 173	Intro to Zoology	6
PHYS 201, 202, 203	Intro to Physics	15
MATH 163A, 163B, or MATH 263A, 263B or MATH 266A, 266B*	Intro to Calculus Calculus Calculus with Bio App.	7 8 8
PSY 221 or MATH 250	Statistics for Beh. Sci. Intro to Prob. and Stat.	5 4

\*preferred option

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

### Plant Biology Minor

#### Minor code OR2111

Requirements for a minor in plant biology consist of a minimum of 28 credit hours of coursework in plant biology including PBIO 114, 115, 209, and 211, and at least two courses at the 300 level or above.

### Plant Biology—Cell Biology and Biotechnology Major (B.S.)

#### Special curriculum; major code BS2118

The Department of Environmental and Plant Biology offers this program for students who are interested in pursuing a profession in biotechnology or biology at the cellular or molecular level. It can provide you with a sound basis for a technical career or for graduate study with a view to a career in research or teaching.

Required PBIO courses consist of a minimum 49 hours, including:

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 431	Cell Biology	5
PBIO 442	Experimental Anatomy of Plant Development	5
PBIO 450	Biotechnology and Genetic Engineering	4

PBIO 404 or PBIO 490	Undergraduate Research Internship	2-6 2-10
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Two additional PBIO courses at 300 level or above.

**Required nondepartmental courses:**

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 490	General Biochemistry	4
CHEM 303, 304, 305, 306, 307 or CHEM 301, 302, 303, 304	Organic Chemistry, Lab	14 or 11
BIOS 171, 173	Intro to Zoology	6
BIOS 321	Microbiology	6
PHYS 201, 202, 203 or PHYS 251, 252, 253	Intro to Physics General Physics	15
MATH 163A, B or MATH 263A, B or MATH 266 A, B*	Intro to Calculus Calculus Calculus with Bio App.	7 or 8 or 8
PSY 221 or MATH 250	Statistics for Beh. Sci. Intro to Prob. and Stat.	5 4

\*preferred math option

**Recommended departmental electives:**

PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 418	Writing in the Plant Sciences	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

**Plant Biology—Environmental Biology Major (B.S.)**

**Special curriculum; major code BS2113**

A major in Environmental Biology provides rigorous preparation, potentially leading to graduate-level training and/or entry level jobs in research, teaching, natural resource management, conservation planning, or science administration. You will receive a strong conceptual understanding of environmental and plant biology, competency with important tools and techniques, and a good background in the natural sciences. The program draws on supporting courses in geography, geology, mathematics, animal biology, physics, and chemistry. It is suggested that students completing this major also obtain the Environmental Studies Certificate. Students are expected to do research in the labs of faculty members or carry out an internship. Graduates of this program are working (for example) in urban forestry, directing the ecological restoration of strip mines, teaching in various colleges and universities, and collecting medicinal plants in Africa. Several graduates have gone into environmental law.

This program differs from other environmental science programs at Ohio University in that it focuses on plants, which are the foundation of life on earth and hence critical to an understanding of environmental science. Students graduating with this major will have marketable skills in plant identification, vegetation survey techniques, statistics, experimental design, and applied computer technology.

**Required PBIO courses consist of a minimum of 53 hours, including:**

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 331	Plant Genetics	5
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 415	Quantitative Methods in Plant Biology	5
PBIO 426 or PBIO 435 or PBIO 436 or PBIO 437	Plant Physiological Ecology Plant Population Biology Plant Community Ecology Ecosystem Ecology	5 5 5 4

PBIO 404 or PBIO 490	Undergraduate Research Internship	2
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Additional PBIO credit hours at 200 level or above to total at least 53 hours, but no more than 80. A maximum of 6 hours of PBIO 404 and 490 combined may count toward the 53-hour requirement.

**Recommended departmental elective:**

PBIO 418	Writing in the Plant Sciences	4
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**Required nondepartmental courses**

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6
BIOS 171, 173	Intro to Zoology	6
Any BIOS course of 4 credits or more at 300–400 level (see recommended electives below)		
GEOG 201	Environmental Geography	4
GEOG 370	Geog. Inform. Sys. Applications	4
GEOG 101	Intro to Geology	5
MATH 163A or MATH 263A or MATH 266A*	Intro to Calculus Calculus Calculus with Bio App	4 4 4
PHYS 201, 202	Intro to Physics	10
PSY 221	Stat. for Behavioral Sci.	5
GEOG 357	Environmental Law	4
or POLS 425	Environ. and Nat. Res. Politics and Policy	4
or POLS 426	Politics of Contemp. Env. Movements	4

\*preferred math option

**Recommended electives**

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ECON 313	Econ. of the Environment	4
BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4
GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

**Plant Biology—Applied Ecology Major (B.S.)**

**Special curriculum; major code BS2115**

The Applied Ecology program prepares students for entry-level environmental science jobs immediately after graduation. In addition to providing a strong background in field botany and ecology, the program offers students experience in a variety of marketable skills including plant identification, vegetation survey techniques, GIS, and greenhouse management. Graduates have jobs in environmental monitoring, rare plant surveys, high school teaching, project management for nonprofit organizations, horticulture, park management, organic farming, and tree care. Students are strongly encouraged to select the internship option, to enhance job prospects. Listings of internship opportunities can be found at the following web sites:

<http://www.thesca.org/>  
<http://www.americorps.org/vista/>  
<http://conbio.org/SCB/Services/Jobs/>  
<http://biology.duke.edu/jackson/ecophys/tech.htm>  
<http://biology.duke.edu/jackson/ecophys/undergrad.htm>

**Required PBIO courses consist of a minimum of 55 hours, including:**

PBIO 114	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 309	Plant Systematics & Ohio Flora	6
PBIO 331	Plant Genetics	5
PBIO 322	Tropical Plant Biology	4
or PBIO 426	Physiological Pl. Ecology	5
or PBIO 435	Plant Population Biology	5
or PBIO 436*	Plant Community Ecology	5
or PBIO 437	Ecosystem Ecology	4
PBIO 490	Internship	
or PBIO 404	Undergraduate Research	2

\*Strongly recommended. The vegetation analysis skills taught in PBIO 436 are particularly valuable in the environmental job market.

Additional PBIO credit hours at 200 level or above to total at least 55 hours, but no more than 80. A maximum of 10 hours of PBIO 404 and 490 combined may count toward the 55-hour requirement. It is recommended that the additional courses used to satisfy the 55-hour requirement be selected from PBIO 248, 307, 310, 410, 412, 420, 426, 435, 436, and 437.

**Recommended departmental elective:**

PBIO 418	Writing in the Plant Sciences	4
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**Required nondepartmental courses**

BIOS 171, 173	Introduction to Zoology	6
BIOS 220	Conservation and Biodiversity	4

4 additional hours of BIOS courses at 300-400 level (see recommended electives below)

CHEM 121, 122, 123	Prin. of Chemistry	12
or CHEM 151, 152, 153	Fund. of Chemistry	15
GEOL 101	Introduction to Geology	5
PSY 221	Stat. for Behavioral Sci.	5

4 additional hours from GEOL (GEOL 231: Water and Pollution recommended to satisfy this requirement)

GEOG 268	Computer Appl. in Geog.	4
GEOG 370	Geog. Inform. Sys. Applications	4

4 additional hours in GEOG from the following:

GEOG 201	Environmental Geog.	4
GEOG 260	Maps	4
GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 316	Biogeography	4
GEOG 353	Environmental Planning	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	4
GEOG 466	Remote Sensing	5

**Recommended electives**

BIOS 375	Animal Ecology	5
BIOS 430	Invertebrate Biology	6
BIOS 431	Limnology	5
BIOS 435	Entomology	6
BIOS 471	Ornithology	6
BIOS 474	Mammalogy	6
BIOS 477	Population Ecology	4
BIOS 481	Animal Conservation Biol.	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

## Environmental Studies Certificate Program

The field of environmental studies encompasses the complex interactions between humans, other organisms, and the biophysical environment. The Environmental Studies Certificate Program is open to students in any major program within the University who want to gain knowledge and understanding about the interdisciplinary field of environmental studies. Completion of this program, which is the equivalent of a minor, results in the awarding of a certificate and is officially recognized on your transcript upon graduation.

You can earn a certificate in environmental studies by completing 32–35 hours of approved coursework selected from the courses outlined below. Many certificate courses currently satisfy both Tier and Arts and Sciences requirements. Further, courses taken as part of an Arts and Sciences major will also count toward fulfilling the certificate. Be advised that some courses require prerequisites, and plan accordingly. Students should take *no more than three courses from any one department.*

**Core Requirements (8–9 hours)**

GEOG 201	Environ. Geography	4
or GEOL 215	Environ. Geology	
BIOS 220	Conserv. and Biodiversity	4
or BIOS 275	Ecology for the 21st Century	4
or BIOS 375	Animal Ecology	5
or PBIO 209	Plant Ecology	4

**Quantitative Skills (4–5 hours)**

Choose an approved course in statistics, such as

ECON 381	Intro to Econ. Statistics and Econometrics	4
GEOG 271	Intro to Stat. in Geog.	4
GEOL 205	Stat. Methods in Geol.	4
MATH 250	Intro to Prob. and Stat.	4
PBIO 415	Quantitative Methods	5
PESS 409	Tests and Measurements	4
POLS 483	SPSS	4
PSY 221	Stat. for Behavioral Sci.	5
ISE 304	Applied Engineering Statistics	3

**Natural Sciences (8–9 hours)**

One chemistry course (any except CHEM 115)

One of the following:

BIOS 221	Basic Microbiology	4
BIOS 376	Field Ecology	4
BIOS 385	Microbial Ecology	3
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 481	Animal Conservation Biol.	4
CE 353	Basics of Environmental Engineering	
CE 452	Water and Wastewater Analysis	3
CHEM 330	Introduction to Toxicology	4
EH 260	Intro to Environmental Health and Safety	4
EH 310	Water Supply and Wastewater Environmental Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 440	Air Quality and Pollution Control	4
GEOG 302	Meteorology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4
GEOL 231	Water and Pollution	4
GEOL 330	Prin. of Geomorphology	5



GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 480	Hydrogeology I	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4

#### Social Sciences (12–13 hours)

POLS 425	Environ. and Natural Res. Politics and Policy	4
Two courses in two different departments from the following		
ANTH 378	Human Ecology	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Res. Economics	4
EH 275	Environ. and Occupational Health & Safety Regulations	4
GEOG 241	Global Issues in Environ. Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Geography of Risk	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	The City and the Environment	4
HIST 306	American Environ. History	4
PHIL 335	Environmental Ethics	4
POLS 426	Politics of Environ. Mvt.	4

#### European Studies

See International Studies.

#### Foreign Languages and Literatures

See Classics or Modern Languages.

#### Foreign Service

See Economics, History, or Political Science, Pre-Foreign Service Major.

#### Forensic Chemistry

See Chemistry—Forensic Chemistry Major.

#### French

See Modern Languages

#### Geography

Geography bridges the natural and the social sciences. It plays an important role today because many of the world's problems require understanding of the interdependence between human activities and the environments, both natural and cultural, in which these activities are carried out. Geography is an attractive major for students because its theories and methods provide analytical techniques applicable to a wide range of questions asked over a broad spectrum of occupations. For students planning to end their formal education with the bachelor's degree, a geography

major provides marketable skills and the broad perspectives on environment and society that enable graduates to move beyond entry-level positions. For similar reasons, geography provides a sound foundation for students who plan to enter graduate work in a variety of fields, from geography to business, land use planning, law, and medicine.

In addition to the basic geography major, The Department of Geography at Ohio University offers several specialized curricula: environmental geography, environmental pre-law, geographic information systems, cartography, meteorology, and urban planning. Students also may earn a minor in geography or in meteorology.

#### Geography Major (B.S. or B.A.)

##### Major codes BS4231, BA4231

This program affords students flexibility in designing a curriculum that combines the traditions of physical and human geography with analytical and technical skills.

The requirements for a B.S. or B.A. in geography are

##### 55 hours of approved geography courses, including:

GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
GEOG 268	Computer Applications	4
GEOG 271	Intro to Stat. in Geog.	4
GEOG 481	Senior Seminar	2

##### One regional course from the following:

GEOG 131	Globalization and the Developing World	4
GEOG 132	Industrial World	4
GEOG 232	Geography of Ohio	4
GEOG 234	Geog. of U.S. and Canada	4
GEOG 330	Geog. of Western Europe	4
GEOG 331	Geography of Africa	4
GEOG 333	Appalachia: Land and People	4
GEOG 334	Historical Geography of the U.S.	4
GEOG 335	Geography of Latin America	4
GEOG 338	Geography of Southeast Asia	4

##### Two technique courses from the following:

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	4
GEOG 370	GIS Applications	4
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5

At least 30 hours at the 300 level or above. No more than 5 hours each of 485 or 490/494 can count toward the 55 hours in geography. Hours in 486 do not count toward this total. Work with your advisor to develop a plan to complete the University General Education Requirements.

Majors are not permitted to take geography and required courses pass/fail.

#### Geography Minor

##### Minor code OR4231

A minor in geography consists of a minimum of 28 hours including GEOG 101, 121, and at least three other courses at the 300 level or above.

#### Geography—Cartography Major (B.S.)

##### Special curriculum; major code BS4236

Cartography, the art and science of mapmaking, is an integral part of geography. The spatial perceptions of geographers are translated into map form via various cartographic techniques.

This program addresses both the academic and technical aspects of cartography, leading to application and practical experience—the latter through a practicum and employment in the Ohio University Cartographic Center, an extension of the Cartography Program and the Department of Geography. The program stresses a strong background in geography, emphasizes cartography-related courses, and complements these courses with specific courses from related areas.

You must meet all requirements for a geography major with these additional specifications:

GEOG 260	Maps	4
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**Minimum of 6 technique courses from:**

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	4
GEOG 370	GIS Applications	4
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 478	Principles of GIS	5
GEOG 479	Geographic Info Analysis	5

**Computer Science**

Two approved CS or MIS courses above the 199 level	8-10
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**Mathematics**

MATH 163A, B or MATH 263A, B	Intro to Calculus Calculus	7 or 8
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**Earth Sciences**

GEOL 101	Intro to Geology	5
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5

**Other requirements**

CE 210	Plane Surveying	4
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Work with your advisor to develop a plan to complete the University General Education Requirements.

**Geography—Environmental Geography Major (B.S.)  
Special curriculum; major code BS4232**

This program provides concentrated study of the earth's physical systems and human interactions with the environment. Environmental geography prepares students for careers in environmental planning, design, and restoration, as well as in environmental assessment and monitoring, resource management, natural areas preservation, and outdoor and environmental education. Students completing the program will develop competencies in a broad array of subjects spanning the natural and social sciences, as well as complementary analytical techniques. If you declare the Environmental Geography major, contact the Department as soon as possible so that you may be assigned an advisor.

You must meet all requirements for a geography major with these additional specifications:

GEOG 201	Environmental Geog.	4
GEOG 241	Global Issues	4

**Two technique courses from the following:**

GEOG 360	Cartography	5
GEOG 361	Statistical Cartography	5
GEOG 365	Air Photo Interpretation	4
GEOG 370	GIS Applications	4
GEOG 418	Biogeography Research	4
GEOG 466	Remote Sensing	5

GEOG 468	Automated Cartography	5
GEOG 475	Geocomputing	4
GEOG 476	Field Methods	4
GEOG 478	Principles of GIS	5
GEOG 479	Geographic Info Analysis	5

**Hours over 300 must include four courses from this list:**

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 357	Environmental Law	4
GEOG 358	Environ. Risk Assessment	4
GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conserv.	4
GEOG 456	City and the Environment	4

**General requirement**

CHEM 121, 122, 123 or 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
MATH 163A, B or 263A, B or 266A, B	Intro to Calculus Calculus Calculus w/Bio. Applications	7 or 8

**Recommended electives**

PHYS 201, 202, 203	Intro to Physics	15
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**Choose at least three courses (portions of the Arts and Sciences natural sciences requirement) from either the Biological Sciences or Earth Sciences group below:**

**Biological Sciences**

PBIO 109	Americans and their Forests	4
PBIO 114*	Cellular Foundations of Plant Biology	5
PBIO 115	Plant Structure and Development	4
PBIO 209	Plant Ecology	4
PBIO 210	Plant Physiology	4
PBIO 211	Diversity of Life	5
PBIO 248	Trees and Shrubs	4
PBIO 309	Plant Systematics and Ohio Flora	6
PBIO 410	Plants and Soil	4
PBIO 426	Physiol. Plant Ecology	5
PBIO 435	Plant Population Biology	5
PBIO 436	Plant Community Ecology	5
PBIO 437	Ecosystem Ecology	4
BIOS 170,* 171, 172, 173	Intro to Zoology	14
BIOS 220*	Cons. and Biodiversity	4
BIOS 221	Microbes and Humans	3
BIOS 222	Microbes and Humans Lab	2
BIOS 275*	Ecology in the 21st Century	4
BIOS 375*	Animal Ecology	4
BIOS 429	Marine Biology	5
BIOS 431	Limnology	5
BIOS 477	Population Ecology	4
BIOS 478	Community Ecology	4
BIOS 481*	Animal Conserv. Biology	4

\*Credit is not awarded for both PBIO 114 and BIOS 170. Credit is not awarded for both BIOS 220 and BIOS 481, or for both BIOS 275 and 375.

**Earth Sciences**

GEOL 101	Intro to Geology	5
GEOL 211	Intro Oceanography	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 330	Prin. of Geomorphology	5
GEOL 427	Water Geochemistry	4
GEOL 432	Origin and Classification of Soils	4
GEOL 439	Fluvial Geomorphology	4
GEOL 471	Advanced Env. Geology	4
GEOL 480	Prin. of Hydrogeology	4
GEOL 481	Groundwater Flow Modeling	4
GEOL 483	Field Hydrology	6

**Social Sciences (portion of Arts and Sciences social sciences area requirement)****Required course:**

ECON 103	Prin. of Microeconomics	4
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**Select two additional course from the following list:**

ANTH 378	Human Ecology	4
ECON 313	Econ. of the Environment	4
ECON 314	Natural Resources Econ.	4
HIST 306	American Env. History	4
HIST 333	Oil and World Power	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
POLS 426	Pol. of the Env. Movement	4
POLS 488	Public Dispute Resolution	4

Work with your advisor to develop a plan to complete the University General Education Requirements.

**Geography—Environmental Prelaw (B.S.)****Special curriculum; major code BS4237**

The Geography—Environmental Prelaw Program is designed to prepare you for advanced study of environmental law. The goal of the program is to provide both a sound science background in environmental studies and a broad base of knowledge in the humanities and social sciences.

You must meet all requirements for a geography major with these additional specifications/exceptions:

GEOG 201	Environ. Geography	4
GEOG 241	Global Issues	4
GEOG 260	Maps	4
GEOG 357	Environmental Law	4

**Only one technique course from the following list:**

GEOG 365	Air Photo Interpretation	4
GEOG 370	GIS Applications	4
GEOG 418	Biogeography Research	4
GEOG 466	Remote Sensing	5
GEOG 476	Field Methods	4

**Hours over 300 must include 4 courses from this list:**

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 325	Political Geography	4
GEOG 329	World Economic Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 358	Ecosystem Risk Assessment	4

GEOG 411	Adv. Physical Geography	4
GEOG 417	Landscape Ecology	4
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Natural Resource Conservation	4
GEOG 456	City and the Environment	4

**Other Requirements**

Work with your advisor to develop a plan to complete the University General Education Requirements.

**Humanities**

Any 305J course (1J) PLUS any 3 courses from:

HIST 314A–C	Soc. and Cult. Hist. of U.S.	4
HIST 314D–F	American Social Thought	4
COMS 103	Fund. of Public Speaking	4
COMS 351	Courtroom Rhetoric	4
COMS 352	Political Rhetoric	4
COMS 353	Contemp. Rhetoric	4
PHIL 120	Principles of Reasoning	4
PHIL 130	Intro to Ethics	4
PHIL 240	Social & Political Philosophy	4
PHIL 335	Environmental Ethics	4
THAR 113	Acting Fundamentals I	4

**Social Sciences**

Any 4 courses from:

BUSL 255	Law & Society	4
ECON 103	Microeconomics	4
ECON 104	Macroeconomics	4
ECON 313*	Econ. of the Environ.	4
ECON 314*	Nat. Res. Economics	4
HIST 306	American Env. History	4
POLS 374	Great Jurists	4
POLS 401	American Const. Law	4
POLS 402	American Const. Law	4
POLS 404	Civil Liberties	4
POLS 409	Criminal Procedure	5
POLS 410	Public Policy Analysis	4
POLS 412	Pub. Personnel Admin.	4
POLS 413	Administrative Law	4
POLS 420	Women, Law, and Politics	4
POLS 425*	Environ. and Nat. Res. Politics and Policy	4
POLS 426	Politics of the Env. Mvmt	4
POLS 488	Public Dispute Resolution	4

\*strongly recommended

**Natural Sciences**

Choose at least 3 courses from Biological Sciences (except BIOS 217), Environmental and Plant Biology (except PBIO 217), and/or Geology.

**General Requirements**

CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry	12
	Fund. of Chemistry	or 15
MATH 163A, B or MATH 263A, B	Intro to Calculus	7
	Calculus	or 8

**Geography—Geographic Information Systems Major (B.S.) Special curriculum; major code BS4235**

The goal of the geographic information systems program is to provide a technical background for geographers interested in working with business, government, or planning agencies. The emphasis of the program is first, to develop a strong background in the field of geographic information systems as practiced in the fields of cartography, remote sensing, and quantitative methods; and second, to develop cognate skills in the fields of computer science, economics, mathematics, and public administration.

You must meet all requirements for a geography major with these additional specifications:

#### Map Analysis Sequence

GEOG 260	Maps	4
GEOG 360	Cartography	5
GEOG 365 or GEOG 361 or GEOG 468	Air Photo Interpretation Statistical Cartography Automated Cartography	4 or 5

#### Statistical Analysis Sequence

GEOG 471	Quantitative Methods	4
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#### Digital Analysis Sequence

GEOG 466	Remote Sensing	5
GEOG 478	Principles of GIS	5
GEOG 479	Geographic Info Analysis	5

#### Application Support Sequence

Two planning/management courses from the following:

GEOG 350	Land Use Planning	4
GEOG 358	Environ. Risk Assessment	4
GEOG 440	Env. Impact Analysis	4
GEOG 447	Natural Resource Conserv.	4
GEOG 475	Geocomputing	4
GEOG 476	Field Methods	4

or

Two systematic specialization courses from the following:

GEOG 303	Climatology	5
GEOG 315	Landforms and Landscapes	5
GEOG 316	Biogeography	4
GEOG 321	Population Geography	4
GEOG 326	Urban Geography	4
GEOG 417	Landscape Ecology	4

#### Recommended Electives

CS 210	Programming in C	5
CS 220	Intro to Computing	5
CS 230	Computer Programming I	5
MATH 113	Algebra	5
MATH 163A, B	Intro to Calculus	7
MATH 211	Elementary Linear Algebra	4

Work with your advisor to develop a plan to complete the University General Education Requirements.

#### Geography—Meteorology Major (B.S.)

##### Special curriculum; major code BS4238

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics can prepare you for graduate training in meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see departmental listings in this section). If you choose the geography emphasis, contact the Department of Geography for advising.

#### Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Physical Geography	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

#### Sophomore

GEOG 201	Environ. Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4

MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

#### Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observ. in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8
PHYS 411	Thermodynamics	4
	English Composition	4

#### Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)

GEOG 406	Intro to Synoptic Meteorology	5
GEOG 407	Adv. Synoptic Meteorology	5
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4

#### Geography emphasis requirements

GEOG 121	Human Geography	4
GEOG 315 or GEOG 316 or GEOG 411	Landforms and Landscape Biogeography Adv. Physical Geography	5 or 4
GEOG 260 or GEOG 360 or GEOG 365	Maps Cartography Air Photo Interpretation	4 or 5

Work with your advisor to develop a plan to complete the University General Education Requirements.

#### Geography/Meteorology Minor

##### Minor code OR4233

A minor in meteorology consists of a minimum of 28 hours including GEOG 101, 121, 302, 304, 305, 406, 407.

#### Geography—Urban Planning Major (B.S.)

##### Special curriculum; major code BS4234

This special curriculum is designed to provide some of the basic academic requirements for a career in urban planning in the United States. While working toward a conventional B.S. in geography, you will take certain required courses and select from an approved list of electives (both inside and outside the Department of Geography) that emphasize legal, social, political, and historical aspects of the planning profession. These courses simultaneously fulfill some of the department and college requirements. The distinctiveness of the curriculum comes from the direction you are given and the preselection of courses in which you may enroll; these elements separate the special curriculum from the general geography program. To enroll in the preparation for urban and regional planning major, contact the chair of the Department of Geography as soon as possible, preferably not later than the beginning of your sophomore year.

The majority of job opportunities for planners are with government agencies at the local, state, and federal levels. Their activities largely concern administration and implementation of federal programs, and continued funding depends upon congress. While a bachelor's degree can provide initial entry into the profession, job descriptions usually specify a master's degree. It is recommended that you continue toward such a degree, which involves an additional two years of study and is offered by more than 70 American universities.

You must meet all requirements for a geography major with these additional specifications:

**Hours over 300 must include:**

GEOG 326	Urban Geography	4
GEOG 456	The City & the Environment	4

**Two of the following:**

GEOG 329	World Economic Geography	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 455	Evolution of Planning	4

**Choice of two technique courses from the following:**

GEOG 360	Cartography	5
GEOG 361	Statistical Geography	5
GEOG 365	Air Photo Interpretation	4
GEOG 370	GIS Applications	4
GEOG 466	Remote Sensing	5
GEOG 468	Automated Cartography	5
GEOG 478	Principles of GIS	5

**Three of the following:**

GEOL 101	Intro to Geology	5
GEOL 231	Water and Pollution	4
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOG 316	Biogeography	4
GEOG 417	Landscape Ecology	4

**Other Departments (12 hrs)**

Except for MGT 202, these courses currently fulfill the social sciences area requirement of the College of Arts and Sciences.

ECON 103 or ECON 303	Prin. of Microeconomics Microeconomics	4
ECON 104 or ECON 304	Prin. of Macroeconomics Macroeconomics	4
MGT 202	Management	4
POLS 320	Urban Politics	4
SOC 424	Urban Sociology	4

Work with your advisor to develop a plan to complete University General Education Requirements

**Electives**

Try to take the remaining credit hours necessary for graduation from the following

BU5L 442	Law of Property and Real Estate	4
ECON 213	Current Economic Prob.	4
ECON 303	Microeconomics	4
ECON 304	Macroeconomics	4
ECON 360	Money and Banking	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
POLS 101	American Nat. Govt.	4
POLS 102	Issues in Amer. Politics	4
POLS 210	Princ. of Public Admin.	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Resource Politics and Policy	4
PSY 335	Environmental Psych.	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 230	Sociology of Poverty	4
SOC 425	Sociology of Aging	4
SW 101	Intro to Social Welfare and Social Work	3
SW 296	Social Welfare as an Inst.	4
SW 395	Aging in the Welfare State	4

**Outside the College of Arts and Sciences**

EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Management	4
EH 320	Shelter Environments	4
HREC 310	Prog. Planning and Facil. for Recreation	5
COMS 205	Group Discussions	4
COMS 304	Prin. and Tech. of Interviewing	4
REAL 101	Real Estate Prin. and Prac.	4
REAL 201	Real Estate Appraising	4
REAL 204	Real Estate Finance	4

**Geological Sciences****Geological Sciences Major (B.S.)****Major code BS3321**

Required courses for the B.S. degree in minimum preparation for a professional career in geological sciences or entry into graduate school include 62 hours of geology:

GEOL 101	Intro to Geology	5
GEOL 205	Statistical Methods	4
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Petrology	4
GEOL 330	Prin. of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentology	4
GEOL 360	Structural Geology	5
GEOL 420	Petrography	5
GEOL 446	Earth Systems Evolution	4
GEOL 466	Geodynamics	4
GEOL 465A	Field Camp I	4
GEOL 4758	Field Camp II	5

At least three additional 400 level courses. If conducting a senior thesis: at least two additional 400 level courses.

**Extrdepartmental requirements**

CHEM 151, 152, 153 or CHEM 121, 122, 123	Fund. of Chemistry	15 or 12
MATH 263A, B	Calculus	8
PHYS 201, 202* or 251, 252, 253 or 251, 202	Intro to Physics General Physics	10 or 15 or 10

\*Discuss the selection of an appropriate physics sequence with your advisor. PHYS 203 may be required for some graduate programs.

**Geological Sciences Major (B.A.)****Major code BA3321**

Requirements for the B.A. degree are designed for students interested in applying a general understanding of the geological sciences to such fields as education, library science, technical writing, or other areas where a general knowledge of earth science is desired. They include 52 hours of geology:

GEOL 101	Intro to Geology	5
GEOL 205	Statistical Methods	4
GEOL 255	Historical Geology	4
GEOL 315	Mineralogy	5
GEOL 320	Petrology	4
GEOL 330	Prin. of Geomorphology	5
GEOL 340	Prin. of Invertebrate Paleontology	4
GEOL 350	Stratigraphy-Sedimentol.	4
GEOL 360	Structural Geology	5
GEOL 466	Geodynamics	4

at least two additional courses at the 400 level

**Extrdepartmental requirements**

CHEM 121, 122	Prin. of Chemistry	8
PHYS 201	Intro to Physics	5
MATH 115	Precalculus	5

Consult the departmental undergraduate advisor regarding appropriate minors to be combined with the B.A. degree.

**Geological Sciences Minor****Minor code OR3321**

A minor in geological sciences requires a minimum of 25 hours of coursework in geological sciences to include 101, 255, and a minimum of three courses at the 300–400 level.

**Geological Sciences—Environmental Geology Major (B.S.) Special curriculum; major code BS3323**

The preprofessional program in environmental geology is designed to provide you with broad training in preparation for a career in conservation, natural resource management, land-use planning, or environmental quality control. In most instances, you should anticipate further training at the graduate level. Consult with the undergraduate advisor in the Department of Geological Sciences before planning your schedule of coursework.

The courses listed below constitute the departmental requirements for this program. Schedule additional courses to fulfill Arts and Sciences and University General Education Requirements.

**Major courses include 54 hours of geology:**

GEO 101	Intro. to Geology	5
GEO 205	Statistical Methods	4
GEO 255	Historical Geology	4
GEO 315	Mineralogy	5
GEO 320	Petrology	4
GEO 330	Prin. of Geomorphology	5
GEO 350	Stratigraphy- Sedimentology	4
GEO 360	Structural Geology	5
GEO 427	Water Geochemistry	4
GEO 480	Principles of Hydrogeology	4
GEO 475A	Field Camp I	4
GEO 475B	Field Camp II	4

**Natural science courses**

BIOS 220	Conserv. and Biodiversity	4
CHEM 151, 152, 153 or CHEM 121, 122, 123	Fund. of Chemistry	15 or 12
CHEM 301, 302	Organic Chemistry	6
MATH 263A, 263B	Calculus	8
BIOS 221, 222	Environ. Microbiology	6
PHYS 201, 202 or PHYS 251, 252, 253	Intro to Physics General Physics	10 or 15

**Social Science courses**

BU5L 370	Environmental Law	4
ECON 313 or ECON 314	Econ. of the Environment Nat. Resources Economics	4
GEOG 478	Geog. Info. Systems	5

**A minimum of two courses from the following list:****Natural Sciences**

BIOS 376	Field Ecology	4
BIOS 431	Limnology	5
CHEM 325	Instr. Methods of Analysis	4
CHEM 431	Chemical Sep. Methods	3
CHEM 432	Chem. Instrumentation and Electrochemistry	3
CHEM 433	Spectrochemical Analysis	3

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEO 432	Orig. and Class. of Soils	4
GEO 434	Intro to Remote Sensing	4
GEO 476	Subsurface Methods	4
GEO 481	Groundwater Flow Modeling	4
GEO 485	Intro to Appl. Geophysics	4
PBIO 410	Plants and Soils	4
PBIO 425	Plant Ecology	5

**Social Science**

ECON 313	Econ. of the Environment	4
ECON 314	Nat. Resources Economics	4
ECON 335	Economics of Energy	4
GEOG 350	Land Use Planning	4
GEOG 353	Environmental Planning	4
GEOG 365	Remote Sensing	5
GEOG 440	Environ. Impact Analysis	4
GEOG 447	Resource Management	5
GEOG 475	Analysis of Geog. Systems	4
GEOG 479	Adv. Geographic Information Systems	5
POLS 425	Environ. and Natural Res. Politics and Policy	4

**German**

See Modern Languages.

**Gerontology Certificate Program**

The Colleges of Arts and Sciences and Health and Human Services jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program within the University who want to gain knowledge and skills for a career in working with the elderly. Completion of this program is officially recognized on your transcript upon graduation.

See the College of Health and Human Services section for Gerontology Certificate Program requirements.

**Global Learning Community**

The Global Learning Community (GLC) is an innovative program that prepares students for leadership opportunities in a rapidly changing world. Open to all majors, the GLC brings together the resources of the colleges of Communication, Arts and Sciences, and Business in an interdisciplinary 30 quarter-hour residential program on global issues, with a strong emphasis on real-world projects and problem-solving skills.

GLC courses are not traditional classes with lectures, tests, and papers. Instead, students work in project teams on real-world problems and issues. Each GLC student completes at least two international and cross-cultural projects.

For additional information, see the complete program description in the "University-Wide Academic Opportunities" section or visit the GLC Web site: <http://www.ohio.edu/glc/>.

## Global Studies in Plant Biology

One of only a few programs in the United States to integrate study abroad with opportunity for research by undergraduate natural science majors. Although the ecological and geographic theme will change from year to year, the program is designed to spotlight physiographic regions and their plant life through a series of three interrelated courses: an introductory seminar, an intensive international field course, and a laboratory research course. Contact the Department of Environmental and Plant Biology, or visit the Global Studies in Plant Biology Web site: <http://oak.cats.ohiou.edu/~ballardh/globalstudies/>.

## Greek

See Classics and World Religions

## History

### History Major (B.A.)

#### Major code BA4211

The major requirement for the B.A. degree consists of a minimum of 56 hours. This total includes:

132	Intro to Non-Western History to 1750	4
133	Intro to Non-Western History Since 1750	4
200	Survey: U.S. History, 1600-1865	4
201	Survey: U.S. History, 1865-present	4

#### 8 hours from either of the following series:

(courses selected must be "adjacent," e.g., 103 and 102, or 122 and either 121 or 123)

101	Western Civ. in Modern Times (Renaissance-1648)	4
102	Western Civ. in Modern Times (1648-1848)	4
103	Western Civ. to Modern Times (1848-Present)	4
or 121	Western Heritage: Classical	4
122	Western Heritage: Medieval	4
123	Western Heritage: Modernity	4

#### 32 hours at the 300-400 level, including

301J	Historical Research and Writing	4
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(You are strongly urged to complete 301J early in your junior year.)

Select ONE of the following areas and complete three courses (12 hrs). ALSO, complete four additional courses (16 hrs) by choosing TWO courses from EACH of the remaining areas

**Europe:** Must include one course on material predominantly before 1500, one from 1500-1800, and one course after 1800.

**Non-western** (Latin America, Middle East, Africa, Asia): Must include one course on material predominantly before 1800, one from the 19th century, and one course from the 20th century

**North America** (Canada, United States): Must include one course before 1800, one from the 19th century, and one course from the 20th century

With the help of your advisor, you will need to develop a coherent plan of study. The emphasis will be to select courses that inter-relate within a particular area. Your advisor will be critical to your success in choosing an appropriate plan of study.

Students with g.p.a.'s of 3.0 and above will be informed about internship opportunities or encouraged to write a senior honors thesis.

### History Minor

#### Minor code OR4211

A minor in history consists of a minimum of 28 hours, including at least 8 hours at the 100-200 level and at least 16 hours at the 300-400 level, in an academically cohesive program that you will plan in consultation with a history faculty advisor.

### History Pre-Foreign Service Major (B.A.)

#### Special curriculum; major code BA4212

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

### History—Prelaw (B.A.)

#### Special curriculum; major code BA4214

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see Law in this section.

### History—Pretheology Major (B.A.)

#### Special curriculum; major code BA4213

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): philosophy (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354A, 354B, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements. It is advisable to major in philosophy, English, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major also is available from the Departments of English and Philosophy.

## International Studies

### For additional information on International Studies, see the Center for International Studies section.

The Bachelor of Arts in International Studies (BAIS) seeks to develop international competence, which involves understanding other peoples and societies well enough to be able to work effectively with them on a broad range of common problems. It calls for the education and training of persons who are proficient in a language other than their own and who are able to understand the history, culture, goals, aspirations and worldview of the people speaking that language.

The program of study leading to the Bachelor of Arts in International Studies aims to provide students with the skills to interact competently with people from other cultures through the development of: (a) cross cultural literacy - the direct experience of another culture via a study abroad experience, the achievement of a high level of proficiency in a second language, and the ability to compare and contrast

issues in different regions and cultures of the world; (b) environmental literacy - a cross-cultural perspective on global issues of human interaction with the natural environment; (c) regional specialization - the study of a world region outside the United States (Africa, Asia, Europe, Latin America) in depth through its history, geography, politics, societies, economics, fine and performing arts, and popular culture with special attention to the issues of gender, class, ethnicity, and race; and (d) critical thinking - expressed both in writing and orally in English and also in a second language.

Throughout this program of study, students are also expected to develop information processing skills which enable them to seek, sort, analyze and evaluate information as well as apply information to the solution of problems.

### Admission to the Major

Admission to the program is divided into two stages: pre-major and major. Students are admitted as "pre-majors" (major code ND4404) to work on the following prerequisites:

- 1 Complete a three-course sequence that includes POLS 250, ANTH 101, and one of the following: INST 103 (Asian Studies), INST 113 (African Studies), INST 118 (European Studies), or INST 121 (Latin American Studies) with a B-average for the three classes.

- 2 Students must complete the 111, 112, and 113 language classes\* in their chosen foreign language with a B average for the three classes.

Students who declare the BAIS pre-major should begin taking the prerequisite courses immediately. ANTH 101 and POLS 250 are generally offered every quarter. INST 103, 113, and 118 are offered once per year; INST 121 is offered twice per year.

- 3 Submission to the BAIS Coordinator of a *Study Abroad Plan*, at least 6 months prior to studying abroad. In the *Study Abroad Plan* students outline their personal and academic goals for studying abroad and identify one primary and two alternate study abroad programs that satisfy these goals. *Study Abroad Plans* are reviewed for approval by the BAIS Faculty Advisory Board once per quarter. Forms and guidelines are available from the BAIS Coordinator.

Any student who wishes to declare the BAIS major, but who has not met the grade requirements for the prerequisite classes, should talk to the BAIS coordinator first to determine if the major is appropriate for him/her. If it is determined that the major is appropriate for the student, s/he may retake any/all of the prerequisite classes.

- \* Students who have completed the 100 or 200 level language series in high school, or transfer students with "cr" for those courses, will be required to take a placement test to determine the appropriate level for continuing language study at Ohio University. If there is no placement test, students should meet with the instructor at the desired level to determine appropriate placement. Students are required to meet the grade standards (described above) for the first three courses in that language taken at Ohio University.

### Requirements for the Undergraduate Major in International Studies

The Bachelor of Arts in International Studies is an interdisciplinary major within the College of Arts and Sciences, and requires the completion of all Arts and Sciences College requirements. The major consists of a minimum of 61

quarter hours of course work, including 33 hours in courses of a broad cross-cultural or international nature and 28 hours on a single world region.

The BAIS program provides majors with opportunities to discuss current affairs, attend special lectures and cultural events, and gather information on study abroad, graduate school, and career opportunities.

### Language Requirement

To graduate with a Bachelor of Arts in International Studies, students must demonstrate proficiency in reading, speaking, and in some cases, writing a language related to their area of concentration. At least one quarter prior to graduation, students must take an oral proficiency examination and attain the level specified for that language. To gain proficiency, students may use any combination of course work at Ohio University, intensive summer language institutes, or study abroad in a country where the language is spoken.

Acceptable languages are Swahili or French for Africa; Chinese, Indonesian, or Japanese for Asia; French, German, Italian\*, Russian, or Spanish for Europe; and Spanish for Latin America. You may petition the BAIS committee to receive approval to use languages other than those listed above to satisfy the language requirement.

- \* Approval of Italian as a second language will require significant study beyond that which is currently offered at Ohio University.

### Education Abroad Requirement

Students majoring in International Studies are required to have a minimum of one quarter of education abroad in the area of the world in which they are concentrating and a country in which their second language is spoken. Study abroad is designed in consultation with the academic advisor and planned as an integral part of the program. The primary goals of education abroad are to increase language competency and to gain exposure to the culture of the world region on which the student is concentrating. It is strongly recommended that students study abroad after completing the equivalent of at least two years of language study. Programs which offer the maximum opportunity to function independently and solve problems in the host culture are preferred.

For additional information, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

### General Arts and Sciences Requirements

As a major in the College of Arts and Sciences, you must satisfy all College distribution requirements including 18 hours of humanities, 18 hours of social sciences, and 18 hours of natural science and mathematics. Courses which satisfy major credit may not be utilized to satisfy these distribution requirements, however they will count towards Tier II requirements.

### International Studies (33 hrs)

ANTH 101	Cultural Anthropology	5
POLS 250	International Relations	4

### Comparative/International Studies (12 hrs) (Select one thematic 3-course sequence.)

a. Comparative Institutions and Ideologies		
POLS 230	Comparative Politics	4
POLS 340	Politics of Developing Areas	4
POLS 490Q	Nationalism	4



**b. Comparative Cultures (choose any three)**

ANTH 345	Gender in Cross Cultural Perspectives	4
ANTH 350	Economic Anthropology	4
ANTH 351	Political Anthropology	4
ANTH 357	Anthropology of Religion	4
ANTH 376	Culture Contact and Change	4

**c. Business**

8A 385	Multinational Business	4
BUSL 385	International Business Law	4
MGT 484	International Comparative Management	4

**d. Political Economy (choose any three)**

ANTH 350	Economic Anthropology	4
ANTH 376	Culture Contact and Change	4
ECON 342	International Economic Policy	4
ECON 350	Economic Development	4
GEOG 329	World Economic Geography	4
POLS 340	International Mass Media	4
POLS 490K	International Political Economy	4

**e. International Relations (choose any three)**

GEOG 325	Political Geography	4
HIST 374B	History of International Diplomacy, 1914-1939	4
HIST 374C	History of International Diplomacy, 1939-present	4
POLS 455	International Law	4
POLS 456	International Organizations	4
POLS 490C	Causes of War	4

**Environmental Literacy (12 hrs)****(Select three courses from one group)****a. Ecology - Conservation Biology (choose any three)**

BIOS 220	Conservation and Biodiversity	4
BIOS 275	Ecology in the 21st Century	4
GEOG 417	Landscape Ecology	4
PBIO 209	Plant Ecology	4
PBIO 322	Tropical Plant Ecology	4

**b. Earth - Biogeography**

BIOS/GEOG 316	Biogeography	4
PBIO 209	Plant Ecology	4
PBIO 322	Tropical Plant Ecology	4

**c. Water, Land and the Oceans (choose any three)**

GEOG 201	Environmental Geography	4
GEOL 211	Introduction to Oceanography	4
GEOL 215	Environmental Geology	4
GEOL 231	Water and Pollution	4
GEOL 303	Marine and Tropical Field Studies	1-6
GEOL 330	Principles of Geomorphology	5
GEOG 315	Landforms and Landscapes	5
GEOG 417	Landscape Ecology	4

**d. Environment and Society (choose any three)**

ANTH 378	Human Ecology	4
GEOG 201	Environmental Geography	4
GEOG 241	Global Issues in Environmental Geography	4
GEOG 321	Population Geography	4
GEOG 344	Agricultural Ecosystems	4
GEOG 353	Environmental Planning	4
ECON 313	Economics of the Environment	4
ECON 314	Natural Resource Economics	4
ECON 325	Economics of Energy	4

**Area Studies (28 hrs)\***

Options: Africa, Asia, Europe, Latin America.

\* Special Studies, experimental courses, and seminars with an international character not listed may be taken with the approval of the student's advisor. Courses must be taken in a minimum of three disciplines, NOT including INST.

**Africa (B.A.)****Special curriculum; major code BA4405****Select 28 hours in a minimum of three disciplines**

AH 332	West African Art	4
AH 333	Central African Art	4
ANTH 381	Cultures of Sub-Saharan Africa	4
CLWR 311	Islam (2C)	4
ECON 455	African Econ. Dev.	4
EDIC 205	Learning from Non-Western Cultures	4
EDIC 425A	Education and Development in Africa	4
FR 454	Francophone Lit. of Sub-Saharan Africa, Maghreb, and the Caribbean	4
GEOG 331	Geography of Africa I	4
HIST 335 A/B	Survey of Middle East History (Includes North Africa)	4
HIST 336 A/B	North Africa	4
HIST 33B	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 341A	Early Africa	4
HIST 341B	Africa During the Slave Trade	4
HIST 341 C	Modern Africa, 1890-Present	4
HIST 342A/B	South Africa	4
HIST 343	Revolutions in Southern Africa	4
HIST 392D	The British Empire (taken in conjunction with at least two African history classes)	4
INST 113*	Modern Africa (2C)	4
PHIL 47B	African Philosophy	5
POLS 441	Govt. and Politics of Africa	5
POLS 463	The U.S. and Africa	5
POLS 464, 464W	Africa and the OAU	5
POLS 490B	Gender and Political Development in Africa	3-5 3-5

\*Required Course

**Asia (B.A.)****Special curriculum; major code BA4406****Select 28 hours in a minimum of three disciplines.**

AH 330	Arts of the Orient	4
AH 341	History of Chinese Art	4
AH 342	Art of 20th Century China	4
AH 343	History of Japanese Art	4
ANTH 385	Cultures of SE Asia	4
ANTH 386	Problems in Southeast Asian Anthropology	4
CLWR 311	Islam (2C)	4
CLWR 321	Hinduism (2C)	4
CLWR 331	Buddhism (2C)	4
CLWR 341	Taoism	5
ECON 473	Economics of SE Asia	4
GEOG 338	Southeast Asia	4
HIST 246	The Rise of Modern Asia	4
HIST 344A	History of Malay World	4
HIST 344B	Hist of Burma and Thailand	4
HIST 344C	History of Vietnam	4
HIST 345A/B/C	Southeast Asian History	4
HIST 346D	Imperial China	4
HIST 346E	Modern China since 1911	4
HIST 348A	Traditional Japan	4

HIST 348B	Modern Japan	4	HIST 396A	European Intellectual and Cultural Hist., 18th-20th cent.	4
HIST 445	Studies in the History of Southeast Asia	4	HIST 396B	European Intellectual and Cultural History, 20th century	4
HIST 449	Studies in the History of East Asian Modern Times	4	HIST 463	Studies in 19th Century Europe	4
ILL 340	Traditional Literature of SEA (Southeast Asia)	4	HIST 467	Studies in Modern France	4
ILL 345	Modern Literature of SEA	4	HIST 483	Russian and Soviet History	4
ILL 369A	Women in Chinese Literature	4	ILML 334	Portuguese and Brazilian Lit in English (when topic is literature from Portugal)	4
INST 103*	Modern Asia (2C)	5	ILML 335	Italian Literature in English	4
INST 350	Focus on Malaysia	5	ILML 336	Spanish Lit in English (when topic is lit. from Spain)	4
INST 490	Tun Razak Seminar	5	ILML 337	French Lit. in English	4
JPC 250	Intro to Japanese Language	4	ILML 338A/B	German Lit. in English	4
JPC 450	Japan: A Sociocultural Interpretation	4	ILML 339A/B	Russian Lit. in English	4
JPN 251X/252X	Japanese Language and Culture	4	INST 118*	European Studies (2C)	4
JPN 348/9	Readings in Japanese Culture	4	ITAL 348	Italian Civ. and Culture	4
MGT 486	Business World of Asia	4	PHIL 444	Philosophy of Marxism	5
PHIL 475	Chinese Philosophy	5	PHIL 458	Cont European Philosophy	5
POLS 342	East Asian in World Politics	4	POLS 331	Politics in Western Europe	4
POLS 445	Govt. and Politics of Japan	4	POLS 333	Politics in Russia and the former Soviet Union	4
POLS 446	Govt. and Politics of China	4	POLS 432	Policy Making in Russia	4
POLS 447A/B	Govt. and Pol. of SE Asia	4	POLS 433	Russian Foreign Policy	4
POLS 490A	East Asia and World Politics	4	POLS 438	Govt. and Pol. of Germany	4
POLS 490S	Japanese Foreign Policy	4	POLS 439	Politics in France	4
*Required course			POLS 490L	European Integration	3-5
<b>Europe (B.A.)</b>			RUS 348/9	Cultural Hist. of Russia	4
<b>Special curriculum; major code BA 4407</b>			RUS 355/6	Intro to Russian Literature	4
<b>Select 28 hours in a minimum of three disciplines</b>			RUS 412	19th Century Russian Literature	4
AH 327	Art of the 19th Century	4	RUS 429	Russian Lit of the Soviet Era	4
AH 328	Modern Art	4	RUS 435	Study Abroad - Moscow	1-4
ECON 353	European Economic Hist.	4	RUS 441	Stylistics	4
FR 345	French for Business	4	SPAN 345	Business Spanish	4
FR 348/9	French Civ. and Culture	4	SPAN 348	Civ and Culture of Spain	4
FR 354/55/56	Intro to Reading French Lit.	4	SPAN 354	Dramatizations of the Hispanic World (when topic is Spain)**	4
FR 429/31/33	20th Century French Lit.	4	SPAN 355	Fictions of the Hispanic World (when topic is Spain)**	4
FR 434	French Through Film	4	SPAN 356	Poetic Images of the Hispanic World (when the topic is Spain)**	4
FR 435	Proseminar (depending on content)	1-4	SPAN 425	19th Century Spanish Literature I	4
GEOG 330	West European Geography	4	SPAN 427	19th Century Spanish Literature II	4
GER 345	Business German	4	SPAN 429	Generation of '98	4
GER 348/9	German Civ. and Culture	4	SPAN 432	20th Cent. Spanish Lit	4
GER 355/6	Intro to German Lit.	4	SPAN 439	Modern Spanish Usage	4
GER 429/30/31	20th Century German Lit.	4	SPAN 441	Stylistics	4
GER 441	Stylistics	4	SPAN 453	Drama of the Golden Age	4
HIST 265A	Hitler and the Nazis	4	SPAN 455	Novel of the Golden Age	4
HIST 360C	Women in European History	4	SPAN 458	Don Quijote de la Mancha	4
HIST 362A/B	Europe 1814-1914	4	*Required course		
HIST 364A	Europe Between the Wars	3	** Check with department prior to registering		
HIST 364B	Contemporary Europe	4	<b>Latin America (B.A.)</b>		
HIST 366A/B	France	4	<b>Special curriculum; major code BA 4408</b>		
HIST 368A/B	Germany	4	<b>Select 28 hours in a minimum of three disciplines.</b>		
HIST 3728/C	History of the Balkans	4	AH 331	Pre-Columbian Art	4
HIST 374A	Balance of Power	4	ANTH 367	South American Prehistory	4
HIST 374B	History of International Diplomacy 1914-1939	4	ANTH 383	Cultures of Latin America	4
HIST 375	World War I	4	ECON 474	Econ. of Latin America	4
HIST 377	Holocaust	4	ILML 334	Portuguese or Brazilian Lit in English (when topic is Brazilian literature)	4
HIST 382A	History of Russia	4	ILML 336	Span. Lit. in English (when topic is Latin American literature)	4
HIST 382B	Russia: Road to Revolution	4			
HIST 382C	Soviet Union	4			
HIST 382D	The USSR in World War II	4			
HIST 392C	20th Century Britain	4			
HIST 392D	The British Empire	4			

GEOG 335	Latin America	4
GEOG 494X	Field Problems (when taken as part of Cuenca, Ecuador, education abroad)	4
HIST 323A/B/C	Latin American Hist.	4
HIST 325	History of U.S.-Latin American Relations	4
HIST 424	Studies in the History of U.S.-Latin American Relations	4
HIST 426	Dictatorships in Lat. Amer.	4
HIST 427	Studies in Recent Lat Amer History	4
INST 121*	Survey of Latin America (2C)	4
POLS 434	Government and Politics of Latin America	4
POLS 435	Revolt. in Latin America	4
POLS 479	Latin American Political Thought	4
POLS 490N	U.S. Policy in Latin America	4
SOC 408	Latin American Society	4
SPAN 345	Business Spanish	4
SPAN 349	Spanish American Civ. and Culture (2C)	4
SPAN 350	Mexican Civ and Culture	4
SPAN 351	Mayan Civ and Culture	4
SPAN 352	Yucatecan Civilization	4
SPAN 354	Dramatizations of Hispanic World (when topic is Latin America)**	4
SPAN 355	Fictions of the Hispanic World (when topic is Latin America)**	4
SPAN 356	Poetic Images of the Hispanic World (when topic is Latin America)**	4
SPAN 435	Proseminar (if theme is Latin America)	4
SPAN 439	Modern Spanish Usage	4
SPAN 441	Stylistics	4
SPAN 443/4	Survey of Spanish-Amer Lit	4
SPAN 447	Themes from Spanish Amer Prose	4
SPAN 448	Cont Spanish Amer Lit	4

\*Required course

\*\*Check with department prior to registering

### Related Minors and Certificates

Language, any Arts and Sciences discipline, Basic and Applied Nutrition, Business, Certificate in Political Communication, Certificate in Environmental Studies, Certificate in Teaching English as a Foreign Language (TEFL), Interpersonal Communication, Telecommunications.

### International Studies Certificate Program

The Center offers certificates in African, Asian, European, and Latin American Studies for students who wish to add an international dimension to their major, or who are interested in an international career or graduate work in area studies. The certificate is noted on your transcript upon graduation.

You must take an introductory interdisciplinary area studies course (INST 103, 113, 118, or 121) appropriate to the certificate you are pursuing. Additional requirements for the European or Latin American Certificate are (1) five courses relating to Europe or Latin America in a minimum of three disciplines, (2) study of a relevant language through the intermediate level; and (3) an overall g.p.a. of 2.5 in courses taken toward the certificate. Additional requirements for the Asian or African Certificate are (1) eight courses in either of two options. Option A—Three courses must be in an African or Asian language, and the other five, in a minimum of three disciplines, must relate to Africa or Asia. B—The eight courses must relate to Africa or Asia with no language requirement, (2) an overall g.p.a. of 2.5 in courses taken toward the certificate.

Register for any of these certificates with the Bachelor of Arts in International Studies Coordinator in the Center for International Studies, Yamada House.

### Interpersonal Communication

See School of Interpersonal Communication in the College of Communication section for information about selective admission requirements. To earn a B.A. in interpersonal communication from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

### Italian Studies Certificate Program

The Italian Studies Certificate is an interdisciplinary and complementary course of study open to students from any undergraduate degree. The aim of the Italian Studies Certificate is to provide an introduction to the rich and varied culture of Italy by exploring it through a variety of disciplines and subjects. These subjects include literature, history, archaeology, art, cinema, and political thought. Knowledge of the Italian language, both written and spoken, is important for an understanding of Italian culture and is therefore a core element to earning the certificate. The certificate requires 24 credits, which you must select from the following departments: Modern Languages, History, Classics, and Art History.

#### Required core classes:

ITAL 341	Adv. Italian Conversation and Composition 4
ITAL 342	Adv. Italian Conversation and Composition 4
ILML 335	Topics in Italian Lit/Film (in translation) 4

Total: 12

#### Electives:

You must choose three elective courses from the following two groups (at least one course from each group) for a total of 12 credits.

##### Group 1:

AH 323	Italian Renaissance Art	4
AH 425	High Renaissance and Mannerism	4
AH 300X	European Art	4
AH 323X	Italian Renaissance Art	4
AH 326X	The Baroque	4
AH 340X	Art and Ideas in Painting	4
AH 425X	High Renaissance	4
ILML 335	Various Topics in Italian Literature and Film, repeatable for credit	4
HIST 356A	The Italian Renaissance	4

##### Group 2:

CLAR 212	Roman Archaeology	4
CLAR 362	The Archaeology of Roman Cities	4
CLAR 352X	Ancient Rome: Development of the City	4
CLAS 254	Rome Under the Caesars	4
CLAS 401 or CLAS 401X	Life of the Romans	4
HIST 329C	Ancient Rome	4

Although they do not count toward certificate requirements, you are encouraged to select a Tier III from the following list.

404A	Reconstructing Roman Slavery	4
410B	The Age of Michelangelo	4
496IA	The Renaissance in Machiavelli	4

## Latin

See Classics and World Religions.

## Latin American Studies

See International Studies.

## Preparation for Law

If you are in the College of Arts and Sciences and plan to enter law school, complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. You may complete a major in the area of your principal interest. Select courses from as many of the following as possible: English composition and literature and American literature; history, especially for English and American; political science; economics; sociology; a laboratory science; mathematics; philosophy, including ethics and logic; accounting; psychology; and a foreign language. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Departments of Economics, English, History, Philosophy, Political Science, and Sociology and Anthropology designate prelaw faculty advisors. These advisors have information about the Law School Admission Test and can supply applications. See the respective department listings in this section for specific information about major requirements. A further opportunity is the environmental prelaw major offered by the Department of Geography. See Geography—Environmental Prelaw for information. The Department of Philosophy offers an opportunity to prepare for the study of law through a program emphasizing logic and the analysis of social, political, and legal thought. See Philosophy—Prelaw Major. The Public Law Track within the Department of Political Science offers students a comprehensive preparation in the politics of law and the courts. See Political Science—Public Law.

The Ohio Supreme Court has ruled that to enter law school you must be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. Law schools in the state of Ohio require the degree of all entering students, regardless of the state in which they plan to take the bar examination.

The degree *in absentia* privilege is available if you do not plan to seek admission to an Ohio law school. After you have completed 144 quarter hours at Ohio University with a g.p.a. of 2.0 or above on all hours attempted, and have satisfied the requirements for a B.A. or B.S., you may obtain the degree after completing, at an accredited school of law, a full year's work of the quality prescribed for a bachelor's degree at Ohio University, provided you are eligible for advancement without condition to the second year of law school. Before entering the school of law, you must secure a statement in writing from the dean giving you the *in absentia* privilege.

## Linguistics

### Linguistics Major (B.A.)

#### Major Code BA5290

The requirements for a major in linguistics consist of 45 credit hours beyond 270; 30 hours must be in core linguistics courses, and 15 hours are to be chosen from other linguistics courses and clustered to form a concentration. Possible concentrations include teaching English as a second or foreign language, the use of computers in language teaching, sociolinguistics, psycholinguistics, and theoretical linguistics. In addition, courses in the social sciences, humanities, education, communications, and computer science are recommended as external electives. Knowledge of a foreign language equivalent to three years of college-level study is required; one language may be studied for all three years, or a different language may be studied in the third year. Transfer of credits from other programs or departments at Ohio University will be accepted upon approval of the department chair. Required core courses are the following:

LING 275	Intro. to Lang. and Culture	4
or LING 280	Language in America	4
LING 350	Intro. to Linguistics	5
or LING 351	Fundamentals of Linguistics	5
LING 370	Intro. to Psycholinguistics	4
or LING 475	Theories of Lang. Learning	4
LING 460	Phonology	5
LING 470	Syntax	4
LING 485	Historical Linguistics	4
LING 495	Directed Research	3

#### To concentrate in teaching English as a second or foreign language, you must also take:

LING 410	Lang. Teaching Practicum	3
LING 475	Theories of Lang. Learning	4
LING 480	TEFL Theory and Methods	4
LING 482	Materials in TEFL	4

### Linguistics Minor

#### Minor code OR5290

A minor in linguistics requires a minimum of 24 hours, with at least two courses at the 400 level. Areas of specialization include general linguistics, sociolinguistics, and teaching English as a second language.

### Language and Literature Courses

The Department of Linguistics offers courses in Chinese, Indonesian/Malaysian, Japanese, and Swahili, although no major in these languages is available. If you are working toward an International Studies Certificate or a degree in African or Asian studies, however, you may choose three quarters of an appropriate African or Asian language as part of your course requirements.

The department also offers courses in the literatures of Asia, which may fulfill certain requirements for an International Studies Certificate or a degree in Asian studies. See the index for the specific language, or refer to "Foreign Languages and Literatures" in the Courses of Instruction section, which includes courses in both languages and literature. (Literature courses are listed in the Foreign Languages and Literatures section under International Literature: Linguistics).

## Mathematics

### Mathematics Major (B.S. or B.A.)

#### Major codes BS3101, BA3101

The requirement for the B.A. or B.S. in mathematics is 50 quarter hours in courses numbered 200 or above, 16 hours of which must be chosen from courses numbered 306 and above (exclusive of 490 and 491), all taken for grade. For a B.S., you must also complete MATH 314 (or 413A) and MATH 360 (or 460A) as part of your 16 hours chosen from courses numbered above 306.

When planning any program of study in mathematics, it is strongly recommended that you consult an advisor from the department. Also see the programs in Actuarial Science, Preparation for Advanced Training, Applied Mathematics, and Premeteorology listed as special curricula below.

To study mathematics strictly from a mathematician's viewpoint in specially designed courses, inquire about the department's tutorial program. (Standard courses listed in the catalog are designed to serve many departments and purposes.)

To prepare for teacher licensure, seek a broad background in various areas of mathematics, including algebra, analysis, geometry, computer science, probability, and statistics. In addition to the course requirements listed by the College of Education, suggested electives include MATH 343, 360, 406, 443, 450A, 450B, and 450C. Please seek assistance at the department office, Morton 321, to consult an advisor in the Department of Mathematics knowledgeable about math education. Together you can plan how to complete the licensure requirements listed under Integrated Mathematics in the College of Education section of the *Catalog*.

See the General Education Requirements listing in the "Graduation Requirements—University Wide" section for Tier I quantitative skills requirements.

### Mathematics Minor

#### Minor code OR3101

The requirement for a minor in mathematics is 30 quarter hours in mathematics courses numbered above 200, including 10 quarter hours of courses numbered 306 or above.

### Mathematics—Actuarial Sciences Major (B.S. or B.A.)

#### Special curricula; major codes BS3105, BA3105

The following program includes 56 hours of mathematics and is intended to prepare you for entering the actuarial profession. After completing the program, you should be prepared to pass the first actuarial examination before graduation.

The program has a strong business component (with the addition of BUSL 255, MK 202, and OPN 310 it satisfies the requirements for a business administration minor) and is suitable if you plan to combine mathematics with a career in business. Finance 327, 341, 461, and MATH 465 are also recommended in addition to the required courses listed below.

#### Freshman

MATH 263A, B, C	Calculus	12
MATH 211	Elem. Linear Algebra	4
ECON 103, 104	Prin. of Micro/Macro	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### Sophomore

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 250	Intro to Prob. and Stat. I	4
MATH 251	Intro to Prob. and Stat. II	4
ACCT 101, 102	Fin. Acct. and Man. Acct.	8

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### Junior

MATH 450A, B, C	Theory of Statistics	12
MATH 455	Princ. of Actuarial Science	4
CS 210	Programming in C	5
FIN 325	Managerial Finance	4
MGT 202	Management	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### Senior

MATH 410	Matrix Theory	4
MATH 451	Stochastic Processes	4
FIN 331	Risk and Insurance	4
FIN 436	Life Insurance	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

### Mathematics—Prep. for Advanced Training Major (B.S. or B.A.)

#### Special curricula; major codes BS3102, BA3102

You can ensure adequate preparation for graduate work by building your program around the 56 hours of basic mathematics offerings listed below. In addition, some computer science experience and coursework from the physical sciences is recommended. Consult an advisor in the Department of Mathematics for assistance in planning your program.

#### Freshman

MATH 263A, B, C	Calculus	12
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Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### Sophomore

MATH 263D	Calculus	4
MATH 306	Found. of Math. I	4
MATH 314	Elem. Abstract Algebra	4
MATH 360	Intermediate Analysis	4
	Math elective	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### Junior-Senior

MATH 411	Linear Algebra	4
MATH 413A, B or MATH 480A, B,	Intro to Mod. Algebra Elem. Point Set Topology	8
MATH 460A, B, C	Advanced Calculus	12

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

You are encouraged to select other 400-level mathematics electives as time and interest permit.

### Mathematics—Applied Mathematics Major (B.S.)

#### Special curriculum; major code BS3103

This program leads to a B.S. in mathematics with an emphasis on applications of mathematics to other disciplines. The intent is to help prepare you for employment as a professional applied mathematician. If you are pursuing this program, you should select an additional concentration

area in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business. In addition to 50 hours of mathematics course requirements listed below, at least 16 hours of extra departmental coursework at the 200 level or above is required in this chosen area.

Consult with an advisor for assistance in designing a suitable study plan. Your program must meet the following requirements:

#### Departmental requirements

MATH 263A, B, C, D	Calculus	16
MATH 306	Found. of Mathematics I	4
MATH 340	Differential Equations	4
MATH 360	Intermediate Analysis	4

#### Select additional courses from the following to make a total of at least 50 credit hours in mathematics:

MATH 410	Matrix Theory	4
MATH 412	Intro to Algebraic Coding Theory	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
MATH 442	Linear and Nonlinear Prog.	4
MATH 443	Math. Modeling and Optimization	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Algebra	4
MATH 449	Adv. Diff. Equations	4
MATH 450A, B, C	Theory of Statistics	4-12
MATH 451	Stochastic Processes	4
MATH 452	Statistical Computing	4
MATH 460A, B, C	Advanced Calculus	4-12
MATH 470	Appl. Complex Variables	4
MATH 486	Intro. to Bioinformatics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives

#### Additional Extra departmental coursework

In addition to the required mathematics courses listed above, at least 16 hours of extra departmental courses at the 200 level or above are required in ONE of the following areas: engineering, computer science, natural sciences, social sciences, or business.

#### Mathematics—Meteorology Major (B.S. or B.A.) Special curricula; major codes BS3104, BA3104

This interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for training at the graduate level in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the mathematics emphasis, which includes a minimum of 44 hours, contact the Department of Mathematics for advising.

#### Freshman

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog.	5
GEOL 101	Intro to Geology	5
MATH 263A, B, C	Calculus (or advanced placement)	12
	English Composition	5

#### Sophomore

GEOG 201	Environmental Geography	4
GEOL 211	Oceanography	4
MATH 263D	Calculus	4
MATH 340	Differential Equations	4

MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

#### Junior

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics English composition	4

#### Senior

Two courses in computer programming or quantitative methods (see advisor for approved list)		10
PHYS 411	Thermodynamics	4
PHYS 414	Dynamic Meteorology I	4
PHYS 415	Dynamic Meteorology II	4

#### Mathematics requirements

MATH 410	Matrix Theory	4
MATH 444	Intro to Numerical Anal.	4
MATH 445	Adv. Numerical Methods	4
MATH 446	Numerical Linear Alg.	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives. GEOG 406 and GEOG 407 are also recommended in addition to the required courses listed above.

## Medicine

See Biological Sciences or Chemistry, Preparation for Medicine.

## Microbiology

See Biological Sciences.

## Modern Languages

(see also: Foreign Languages and Literatures)

**French Major (B.A.)—Major code BA5221**

**German Major (B.A.)—Major code BA5222**

**Russian Major (B.A.)—Major code BA5224**

**Spanish Major (B.A.)—Major code BA5225**

Germanic, Romance, and Slavic languages are included in the offerings of the Department of Modern Languages. Majors are offered in French, German, Russian, and Spanish.

**The minimum requirement for a French major is 40 quarter hours beyond 213**, which must include 12 quarter hours at the 400 level. French majors must complete 341, 342, 343, 348 or 349, and 354; two of 345, 355, or 356 in addition to the 12 quarter hours at the 400 level.

**The major requirement for the B.A. in German is a minimum of 36 quarter hours beyond 213.** Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

**The major requirement in Russian is a minimum of 36 quarter hours beyond 213.** Specific requirements are 341, 342, 343, 348 or 349, 355, 356, and at least 12 quarter hours at the 400 level, which should include courses in both language and literature.

**In Spanish the requirement is a minimum of 40 quarter hours beyond 213**, which must include 16 quarter hours at the 400 level. Spanish majors must complete 341,

and 343; 348; one of 349, 350, 351, or 352; two of 345, 354, 355, or 356; one of (linguistics) 437, 438, 439, or 441; one of (Spanish-American content) 443, 444, 447, or 448; and one of (Spanish content) 425, 427, 429, 432, 453, 454, 455, or 458. 435 may be used to fulfill a Spanish 400 level requirement if approved by the department. An Oral Proficiency Interview (OPI) is required of all Spanish majors. This must be taken and passed one quarter prior to graduation. For more information contact the Modern Languages Department (Gordy 283).

### Education Abroad Requirement for Spanish Majors

Students majoring in Spanish must have a minimum of one quarter of education abroad in a Spanish-speaking country. Students choose a study abroad program in consultation with an academic advisor. The primary goal of education abroad is to increase cultural and linguistic competency. We strongly recommend that students study abroad after completing the equivalent of at least one year of language study. Although we encourage students to participate in an Ohio University study abroad program, other alternatives are possible.\*

- \* In rare cases, the study abroad experience may be waived due to prior experience, financial exigencies, etc. In some cases, an internship with a Spanish-speaking organization may substitute for the education abroad. The Modern Languages Department must approve all substitutions which students initiate through petition to their academic advisor.

You are not permitted to take courses in your major subject on a pass/fail basis. A grade of C (2.0) or better must be earned in a course for those hours to count toward a major. You are strongly urged to study abroad in one of the department's programs. Suggested electives are classical languages, comparative literature, cultural anthropology, English, fine arts, history of the country in your major interest, and linguistics.

If you are an Arts and Sciences student interested in becoming licensed to teach languages at the secondary level (middle school or high school), please seek assistance at the department office, Gordy 283, to meet with language department faculty knowledgeable about language education. Together you can plan how to complete the licensure requirements listed under Modern Languages in the College of Education section of the Catalog. Prospective teachers are highly encouraged to spend one quarter in study abroad.

The Language Resource Center was opened in September of 1998. It is located on the ground floor of the new Gordy Hall. It consists of a large independent study lab, a classroom computer lab, a classroom audio lab, an independent study audio lab, a faculty development room, a recording studio, a video editing room, and a classroom for observation.

The department has chapters of foreign language honoraries Delta Phi Alpha, Phi Sigma Iota, and Sigma Delta Pi. For information on the honors tutorial programs in French and Spanish, see the Honors Tutorial College section.

The following study-abroad programs are available through the department:

- 1 Austria: spring quarter in Salzburg offers beginning through advanced German.
- 2 Ecuador: spring quarter in Cuenca offers courses in intermediate through advanced Spanish.
- 3 France: spring quarter in Tours offers courses in beginning through advanced French.

- 4 Mexico: winter quarter in Merida offers intermediate and advanced Spanish and coursework in Latin American area studies.

- 5 Russia: spring quarter in Moscow offers intermediate and advanced Russian.

- 6 Spain: one-, two-, or three-quarter sequence in Pamplona offers courses necessary for completing the Spanish major or minor and for working toward the Certificate in European Studies. A summer session is also available.

### French Minor—Minor code OR5221

### German Minor—Minor code OR5222

### Russian Minor—Minor code OR5224

### Spanish Minor—Minor code OR5225

A foreign-language minor requires a minimum of 24 hours of language courses beyond 213 with a grade of C (2.0) or better in each course. There are no specific course requirements, but you should observe prerequisites and course sequences. Consult with the Modern Languages department (Gordy 283) to develop a minor.

## Music

See School of Music, in the College of Fine Arts section, for information about selective admission requirements. To earn a B.A. in music from the College of Arts and Sciences requires special permission. Inquire at the College of Arts and Sciences Student Affairs Office.

## Pharmacy

See Chemistry or Prepharmacy.

## Philosophy

### Philosophy Major (B.A.)

#### Major code BA5241

The major requirement for a B.A. consists of a minimum of 40 hours, including

PHIL 310	Hist. of Western Phil.: Ancient	5
PHIL 312	Hist. of Western Phil.: Modern	5
PHIL 320	Symbolic Logic I	4
PHIL 490	Senior Seminar	3

At least three courses numbered above 400, not including 490 or 497.

You may begin your study of philosophy with courses at the 100, 200, or 300 level except as limited by specific prerequisites.

For more information, contact the Department of Philosophy.

### Philosophy Minor

#### Minor code OR5241

The general requirement for the philosophy minor is 25 hours, at least 20 of which must be courses numbered 200 or above. For more information, contact the Department of Philosophy.

### Philosophy—Prelaw Major (B.A.)

#### Special curriculum; major code BA5244

The requirement for a major in Philosophy—Prelaw is a minimum of 40 hours in philosophy, including the following:

PHIL 101	Fundamentals	4
or PHIL 130	Introduction to Ethics	4
PHIL 240	Social and Political Philosophy	4
PHIL 310	History of Western Philosophy: Ancient	5
or PHIL 312	History of Western Philosophy: Modern	5

PHIL 320	Symbolic Logic I	4
PHIL 440	Contemporary Social Philosophy	5
or PHIL 442	Philosophy of Law	5
PHIL 490	Senior Seminar	3

At least two additional courses above 400.

For more information, contact the philosophy department.

### **Philosophy—Pretheology Major (B.A.)**

#### **Special curriculum; major code BAS242**

If you plan to enter a theological seminary or to do graduate study in religion, it is recommended that you take a broad program of undergraduate courses, including the following (with minimum credit suggested in each area): philosophy (12); courses on the texts and history of religions (15); English composition and literature, and world literature (21); history, including HIST 354, 356C, and 370 (15); social sciences (21); foreign languages (18); natural sciences (9); public speaking (3). Arrange your program to meet the requirements of the B.A. degree and the University General Education Requirements.

It is advisable to major in philosophy, English, classics, or one of the social sciences. Check the entrance requirements of the theological seminaries, other religious educational institutions, or graduate schools of your choice and plan your curriculum accordingly. A pretheology major is also available from the Departments of English and History.

### **Preparation for Physical Therapy**

Ohio University offers a unique opportunity to the prospective physical therapist. Recognized for leadership in the development of preprofessional physical therapy curricula since the 1930s, the Department of Biological Sciences, and the Department of Psychology, both in the College of Arts and Sciences, work cooperatively with the School of Physical Therapy in the College of Health and Human Services.

Physical therapy programs are offered at the graduate level only. As of January 1, 2002, undergraduate physical therapy programs are no longer accredited. To be eligible for admission to an accredited professional school of physical therapy, you must first complete the baccalaureate-level preprofessional preparatory coursework and then apply on a competitive basis to a professional school of physical therapy. If you are accepted, the professional program extends for an additional two to three years, culminating in a degree in physical therapy. The optional plans of study available will prepare you to be highly qualified for admission to most schools of physical therapy. However, some professional programs require special prerequisites—either courses or practical experience as a volunteer—before you apply for admission. It is your responsibility to check the admission requirements for programs you wish to attend and, in consultation with your academic advisor, to fulfill any special prerequisites.

Ohio University has the first entry-level doctoral program in the state of Ohio. Although a master's degree is sufficient to sit for the national licensing examination, the profession has been making a rather rapid transition to the doctoral degree (DPT). At Ohio University, the entry-level doctoral program in the School of Physical Therapy admits students on a competitive basis. It is a three-year program with approximately 17 quarter hours per term. A baccalaureate degree is required for admission to the program. Although

a baccalaureate degree in any field is acceptable, as long as the prerequisites have been attained, the most direct routes at Ohio University are the biological sciences/pre-physical therapy or psychology/pre-physical therapy majors in the College of Arts and Sciences. A major in exercise physiology in the College of Health and Human Services is also an option.

Application should be made in the senior year. The GRE should be taken at the beginning of the senior year in order to meet requirements for early admission status. Some volunteer experience is possible through Ohio University Therapy Associates, particularly in the course, PT 259B.

For additional information, see Biological Sciences or Psychology Pre-Physical Therapy majors in this section, and "Physical Therapy" in the College of Health and Human Services section. Students should consult the Web page (<http://www.ohio.edu/phystherapy/>) for the most up-to-date information.

### **Physics and Astronomy**

The Department of Physics and Astronomy offers majors in physics (B.A. or B.S.); preparation for advanced training for students planning to pursue graduate study in physics or astronomy; applied physics; and meteorology.

Students in the Honors Tutorial College may major in physics, astrophysics, or engineering physics. Curricula for these programs are available from the Honors Tutorial College.

Contact the chair of the Department of Physics and Astronomy if you are interested in pursuing any of the programs described below.

#### **Physics Major (B.S. or B.A.)**

##### **Major codes BS3331, BA3331**

The minimum requirements for the B.S. degree with a major in physics are

##### **54 quarter hours of physics, including**

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Labs	6
PHYS 411	Thermodynamics	4
PHYS 427, 428	Electricity and Magnetism	8
PHYS 451	Quantum Mechanics	4

##### **The following mathematics courses**

MATH 263A, B, C, D	Calculus	16
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Anal. and Partial Differential Equations	4

12 quarter hours in PHYS, ASTR, or MATH above the 300 level, in CHEM above the 150 level, or in BIOS above the 200 level.

The minimum requirement for the B.A. degree with a major in physics is 36 quarter hours in physics and/or astronomy at or above the 200 level, including

PHYS 210	Physics Seminar	1
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	4



This degree is recommended if you want a general education with an emphasis on physics and/or astronomy; have plans for further education or employment in an interdisciplinary area; or desire a dual major in physics and chemistry, biological sciences, geological sciences, etc.

You can meet the requirements for teaching high school physics by completing the physics major program listed in the College of Education section.

### **Astronomy Minor** **Minor code ORASTR**

The minor in astronomy is an option for non-physics majors who wish to study astronomy as a special interest. (Physics majors who are interested in astronomy should enroll in the physics pre-astronomy program.) Students in mathematics, chemistry, engineering, and other fields of study will find a significant science overlap with their major areas of interest.

The astronomy minor consists of a set of required courses—PHYS 251 and 252, PHYS 253 or EE 321, PHYS 254, and ASTR 305—and at least 12 hours from ASTR 310, 401, 402, 403, 410, and 450.

### **Physics Minor** **Minor code OR3331**

The minor in physics consists of a minimum of 30 hours with 10 hours at or above the 300 level.

### **Physics—Applied Physics Major (B.S.)** **Special curriculum; major code BS3332**

This four-year program leads to a B.S. in physics and allows an emphasis in experimental techniques from engineering or other applied sciences. It provides the opportunity for a broad basic education in areas fundamental to present technology and is aimed at preparing you for many physics career opportunities in industry and government laboratories.

The sequence of courses will vary depending on your interests. Basic requirements in natural sciences, physics, and mathematics will be the same as those of the regular B.S. in physics but may be satisfied by engineering or other applied science courses. The elected sequence could be toward a specific area of interest within an engineering department, e.g. Civil, Mechanical, Electrical, etc. or over a broad area of interest e.g. materials science, which crosses colleges.

The advantage of preparing for applied science through the fundamental physics program is the acquisition of the abilities for continued development of the technology from fundamental physics principles.

### **Physics Astrophysics Major (B.S.)** **Special curriculum; major code BS3335**

This challenging program offers a solid foundation in physics along with specialized study for students interested in pursuing advanced degrees in astronomy or astrophysics. Required and recommended courses are listed below by the year in which they are taken by most students. The order is not fixed, but check the course listing for prerequisite requirements. Consult the department chair and pre-astronomy major advisor during your freshman year for help in planning your program.

#### **Freshman**

	English composition	5
MATH 263A, B, C	Calculus	12
PHYS 210	Physics Seminar	1
PHYS 251, 252	General Physics	10

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### **Sophomore**

MATH 263D	Calculus	4
MATH 340	Differential Equations	4
MATH 410*	Matrix Theory	4
ASTR 305	Fund. of Astrophysics	3
ASTR 401	Stellar Astrophysics	3
CS 220*	Intro to Computing	5
PHYS 253	General Physics	5
PHYS 254	Contemporary Physics	4
PHYS 272, 273	Electronics Lab	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.

#### **Junior**

	English composition	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Analysis and Partial Diff. Equations	4
ASTR 402	Galactic and Interstellar Astrophysics	3
ASTR 403	Extragalactic Astrophysics and Cosmology	3
PHYS 311, 312	Mechanics	8
PHYS 371, 372, 373	Intermediate Lab	6

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.\*\*\*

#### **Senior**

	Tier III	4
ASTR 310**	Astronomy Lab	1-3
ASTR 410**	Observ. Astrophysics	3
ASTR 450**	Studies in Astronomy	1-3
PHYS 411	Thermodynamics	4
PHYS 412*	Kinetic Theory and Stat. Mechanics	4
PHYS 427, 428	Elec. and Magnetism	8
PHYS 429*	Electromag. and Relativity	3
PHYS 451*	Quantum Mechanics	4

Arts and Sciences degree requirements (including language), University General Education Requirements, and/or electives.\*\*\*

If you are in the Honors Tutorial Program, special combinations of some of the above courses are available. Consult with the pre-astronomy advisor.

\*Strongly recommended.

\*\*A total of at least six hours in combined coursework from ASTR 310, 410, or 450 is required.

\*\*\*Beneficial PHYS electives include 303 Computer Simulation Methods, 423 Optics, and 453 Nuclear and Particle Physics.

### **Physics—Meteorology Major (B.S.)** **Special curriculum; major code BS3338**

The following interdisciplinary program in the Departments of Geography, Mathematics, and Physics is designed to prepare you for graduate training in the fields of meteorology, climatology, and atmospheric physics. The program can be taken with an emphasis in geography, mathematics, or physics (see department listings in this section). If you choose the geography or mathematics emphases, contact the department of Geography or Mathematics for advising.

#### **Freshman**

CHEM 151	Fund. of Chemistry	5
CHEM 152	Fund. of Chemistry	5
GEOG 101	Elements of Physical Geog	5
GEOL 101	Intro to Geology	5
MATH 263A	(or advanced placement),	
263B, 263C	Analytic Geom. and Calc	12
	English composition	5
PHYS 210	Physics Seminar	1

**Sophomore**

GEOG 201	Environmental Geography	4
GEOG 211	Oceanography	4
MATH 263D	Analytic Geom. and Calc.	4
MATH 340	Differential Equations	4
MATH 440	Vector Analysis	4
MATH 441	Fourier Series and Partial Diff. Equations	4
PHYS 251, 252, 253	General Physics	15

**Junior**

GEOG 302	Meteorology	5
GEOG 303	Climatology	5
GEOG 304	Observations in Meteorology	2
GEOG 305	Pract. in Meteorological Forecasting	2
PHYS 311, 312	Mechanics	8
	English composition	4

**Senior**

Two courses in computer programming or quantitativemethods (see advisor for approved list) 10

GEOG 406	Intro to Synoptic Meteorology	5
GEOG 407	Adv. Synoptic Meteorology	5
PHYS 411	Thermodynamics	4
PHYS 414, 415	Dynamic Meteorology	8

**Physics emphasis requirements**

PHYS 272, 273	Electronic Lab	4
PHYS 254	Contemporary Physics	3
PHYS 412 or PHYS 423	Kinetic Theory and Statistical Mechanics Optics	4

Arts and Sciences degree requirements, University General Education Requirements, and/or electives.

## Political Communication Certificate Program

The College of Communication and the College of Arts and Sciences jointly sponsor the undergraduate Political Communication Certificate Program for students in any major program who want to gain knowledge and understanding about the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their attempts to shape political decisions. Completion of this program is officially recognized on your transcript when you graduate, and a certificate is awarded. See the program details in the College of Communication section.

## Political Science

### Political Science Major (B.A.) Major code BA4201

The major requirement is a minimum of 52 hours including

POLS 101	Amer. Natl. Government	4
POLS 150	Current World Problems	4
POLS 270	Political Theory	4

Two additional 200-level courses

#### At least four 300- and 400-level courses in one of the following tracks:

**American politics**  
POLS 301, 304, 306, 310, 319, 323, 401, 402, 405, 406, 407, 415, 417, 418, 420, 424, 425, 426, 476A, 476B, 488

**Comparative politics**  
POLS 331, 333, 340, 429, 432, 434, 435, 438, 439, 441, 442, 445, 446, 447A, 447B, 463, 464

**International relations**

POLS 354, 427, 433, 452, 455, 457, 459, 463, 464

**Political theory**

POLS 371, 372, 373, 404, 475, 476A, 476B, 477, 478, 479

**Public law**

POLS 301, 374, 401, 402, 404, 409, 413, 420, 421, 455, 477, 488

**Identity and social movements**

POLS 319, 323, 418, 420, 421, 478

**General Politics**

One 300- or 400-level course from each of four different tracks

All majors are encouraged to take additional courses designed to develop skills, including POLS 305J, 390, 480, 481, 482, 483, 484, and 495.

**Political Science Minor****Minor code OR4201**

The minor in political science requires a minimum of 28 hours, including POLS 101, 150, 270, and at least 16 hours at the 300-400 level.

### Political Science Pre-Foreign Service Major (B.A.) Special curriculum; major code BA4202

To prepare for the annual foreign service officer examinations, you are advised to acquire as broad an education as possible. Facility in written and spoken English; competency in a foreign language; and a good background in economics, history, political science, business, or public administration are essential. A pre-foreign service major is available through the Departments of Economics, History, or Political Science. You can obtain detailed information about foreign service officer examinations, including sample questions from previous examinations, from these departments.

**Political Science—Prelaw (B.A.)****Special curriculum; major code BA4203**

The prelaw major in political science gives students access to advice, activities, and courses designed to prepare them for law school. Prelaw majors meet the same requirements as general political science majors and may select from the Public Law or any other track within the major. Although there are no required courses, you may want to pay special attention to the following offerings:

The Politics of Law 301  
Great Jurists 374  
American Constitutional Law 401 & 402  
Civil Liberties 404  
Criminal Procedure 409  
Administrative Law 413  
Women Law and Politics 420  
International Law 455  
Legal Theory and Social Problems 477  
Public Dispute Resolution 488

### Political Science—Public Administration Major (B.A.) Special curriculum; major code BA4200

The interdisciplinary program in public policy and administration is designed to provide broad training in preparation for a career with local, state, or federal government in the areas of budgeting, personnel administration, intergovernmental relations, program planning and evaluation, and general administration.

Be careful to meet the prerequisites for all courses. You are encouraged to gain as broad an understanding of politics as political science majors, since politics is a crucial element in public administration.

For further information and advice, consult the public administration advisor in the Department of Political Science.

**Required courses**

POLS 101	American National Government	4
POLS 102	Issues in American Politics	4
POLS 150	Current World Problems	4
POLS 210	Public Administration	4
POLS 230 or POLS 250	Comparative Politics International Relations	4
POLS 270	Political Theory	4
POLS 310	American Domestic Policy	4
POLS 304 or POLS 320	State Politics Urban Politics	4
ECON 103	Microeconomics	4
ECON 104	Macroeconomics	4
CS 120	Computer Literacy	4
PSY 221 or QBA 201 or POLS 482	Statistics for Beh. Sciences Intro to Business Statistics Quant. Political Analysis	5 or 4 or 5

**Any five of the following:**

POLS 407	Politics of Urban Dev.	4
POLS 408	Urban Public Admin.	4
POLS 410	Public Policy Analysis	4
POLS 412	Public Personnel Admin.	4
POLS 413	Administrative Law	4
POLS 414	Org. Theory and Politics	4
POLS 424	Intergovernmental Relations in the U.S.	4
POLS 425	Environ. and Natural Res. Politics and Policy	4
POLS 429	Comparative Public Admin.	4
POLS 469	Nonprofit Fundraising	4
POLS 484	Mgt. Skills for Public Admin.	5
POLS 486	Public Budgeting	4
POLS 487	Financial Mgt. in Govt.	4
POLS 488	Public Dispute Resolution	4
POLS 489	Nonprofit Management	4

**Recommended electives**

ACCT 201	Financial Accounting	4
ACCT 202	Managerial Accounting	4
ECON 425	Public Policy Economics	4
ECON 430	Public Finance	4
FIN 325	Managerial Finance	4
GEOG 201	Environmental Geography	4
GEOG 326	Urban Geography	4
GEOG 350	Land Use Planning	4
POLS 409	Criminal Procedure	4
POLS 495	Internship	4
SOC 430	Soc. of Organizations	4

**Psychology****Psychology Major (B.A.)****Major code BA4101**

The major requirement for the B.A. in psychology consists of a minimum of 50 quarter hours and a maximum of 72 hours. All majors are required to take

PSY 101	General Psychology	5
PSY 221	Stat. for Beh. Sciences	5
PSY 226	Research Methods	4

**Biological—at least one of the following:**

PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 312	Physiol. Psychology	4
PSY 314	Comp. Psychology	5

PSY 327	Human Psychophysiol.	4
PSY 380	Psych. of Health and Illness	4
PSY 490*	Seminars	3-5

**Cognitive—at least one of the following:**

PSY 304	Human Learning and Cognitive Processes	4
PSY 305	Human Memory	4
PSY 307	Psycholinguistics	4
PSY 308	Human Judgment and Decision Making	4
PSY 490*	Seminars	3-5

**Developmental—at least two of the following:**

PSY 273	Child and Adoles. Psych.	4
PSY 275	Educ. Psychology	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 374	Psych. of Adulthood and Aging	4
PSY 376	Psychological Disorders of Childhood	4
PSY 378	Psychology of Gender	4
PSY 470	Prenatal Influences on Development	4
PSY 490*	Seminars	3-5

**Clinical—at least two of the following:**

PSY 233	Psych. of Personality	4
PSY 332	Abnormal Psychology	4
PSY 341	Tests and Measurements	4
PSY 351	Intro to Clinical and Counseling Psychology	4
PSY 430	Psychoactive Drugs	4
PSY 490*	Seminars	3-5

**Social-Organizational—at least two of the following:**

PSY 261	Industr. and Org. Psych.	4
PSY 310	Motivation	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
PSY 361	Adv. Org. Psychology	4
PSY 362	Personnel Psych.	4
PSY 490*	Seminars	3-5

**At least four courses at the 300 level or above**

If you plan to attend graduate school in psychology, you should include PSY 233, 273, 304, 312, 321, 332, 336, 341, and 418.

In addition to a minimum of 50 hours of psychology coursework, majors are required to complete a series of extradepartmental courses selected from the natural sciences and either mathematics or computer science.

Majors must complete three courses in ONE of the following natural science areas:

- 1 Biological Sciences,
- 2 Chemistry,
- 3 Environmental and Plant Biology,
- 4 Geography,
- 5 Geology, or
- 6 Physics

Courses that will fulfill this requirement are listed under the Natural Sciences Area Requirement in the College of Arts and Sciences section of the Catalog and in the Arts and Sciences Natural Sciences portion of students' DARS. Courses taken to fulfill the extradepartmental requirement simultaneously apply to the College of Arts and Sciences Natural Sciences area requirement.

The three courses that you choose for your extradepartmental natural science requirement must have the same departmental prefix, with the following exception: If BIOL 101 is used as one of the courses, it may be combined with either two Environmental and Plant Biology (PBIO) courses or two Biological Science (BIOS) courses. The intention of the extradepartmental natural science requirement is to provide a basic foundation in at least one natural science area, while allowing flexibility in the choice of area. However, students who are planning to attend graduate school in psychology are encouraged to complete the three courses in Biological Sciences (BIOL, BIOS).

Undergraduate psychology majors must also take two courses in either mathematics or computer science. Students may select any two courses in Mathematics (MATH) numbered 113 or above (except 251) OR any two courses in Computer Science numbered 200 or above. These courses are required to ensure that majors have at least a basic literacy in mathematics or computer science but to allow students to select from a wide range of levels. MATH or CS courses chosen for the extradepartmental requirement may simultaneously apply to the Natural Sciences area for Arts and Sciences distribution requirements, except MATH 113, 115, 117, 118, 120, 121, 122, and 320. You may choose MATH 250, but only if it is completed BEFORE you take PSY 221. Do not take MATH 251 because credit is not allowed for both MATH 251 and PSY 221. MATH 113 or a math placement of PL2 or higher is the prerequisite for taking PSY 221.

For qualified students, the department offers a departmental honors program. A detailed description is available from the department; apply to the assistant chair for undergraduate studies.

Requirements for all psychology programs are structured to provide you with exposure to several areas of psychology, while providing latitude in selecting courses to fit your needs and interests. Consult your academic advisor early in your program to plan appropriate course selections, particularly if you are considering graduate work in psychology.

At the graduate level, the department offers doctoral programs in clinical, experimental, and organizational psychology. Information about the graduate programs is available from the assistant chair for graduate studies.

\* 490 seminars that apply to the psychology area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

### Psychology Minor Minor code OR4101

The minor in psychology consists of a minimum of 28 hours, with at least two courses at the 300 level or above. PSY 101 and 120 or 221 are required. In addition, at least one course is required in four of the following five areas:

- A Biological: 201, 203, 312, 314, 327, 380, 490\*
- B Cognitive: 304, 305, 307, 308, 490\*
- C Developmental: 273, 275, 315, 374, 376, 378, 470, 490\*
- D Clinical: 233, 332, 341, 351, 430, 490\*
- E Social-Organizational: 261, 310, 336, 337, 361, 362, 490\*

\*490 seminars that apply to these area requirements are approved by the assistant chair for undergraduate studies when the seminar is offered. Some 490s do not apply to any area.

### Psychology Pre-Physical Therapy Major (B.A.) Special curriculum; major code BA4105

This program prepares you to apply to graduate physical therapy professional programs.

For further information about physical therapy, see the Preparation for Physical Therapy listing in this section. See also the pre-physical therapy program described under Biological Sciences in this section.

#### Freshman

CHEM 121, 122, 123*	Principles of Chemistry	12
ENG 151 or 152 or 153	English composition	5
MATH 163A or MATH 266 A	Calculus Calculus Biol Appl	4 4
PSY 101**	General Psychology	5
PSY 221**	Statistics	4
PT 259A, 259B	Intro to Phys. Therapy	5
SOC 101**	Intro to Sociology	5
BIOS 170, 171	Intro to Zoology	10

Arts and Sciences degree requirements, including the B.A. degree foreign language requirement, and/or electives.

#### Sophomore-Junior

PHYS 201, 202, 203	Intro to Physics	15
PSY 226	Research Methods	4
PSY 273	Child and Adolescent Psychology	4
PSY 312	Physiological Psychology	4
PSY 332	Abnormal Psychology	4
BIOS 301 or 302	Human Anatomy (soph)	6
BIOS 345, 346	Human Physiology and Lab (soph)	7
BIOS 445, 446 or PE55 414, 415	Physiol. of Exercise, Lab Physiol. of Exercise, Lab	7 7
PHIL 130 or PHIL 331	Intro. to Ethics Moral Problems in Medicine	4 5
ENG 305J or ENG 308J	Technical Writing (jr) Composition (jr) Tier II	4 4-5

Arts and Sciences degree requirements, and/or electives. BIOS 402, Human Neuroscience, is not required by Ohio University's School of Physical Therapy but may be required for admission to other programs.

#### Sophomore-Junior-Senior

PSY 374	Adulthood and Aging	4
PSY 489***	Fieldwork	0-5
one of:		
PSY 201	Sensation and Perception	4
PSY 203	Learning	4
PSY 304	Human Learning	4
PSY 308	Human Judgment and Decision Making	4
PSY 327	Human Psychophysiol.	4
one of:		
PSY 233	Psych. of Personality	4
PSY 351	Clinical and Counseling Psychology	4
PSY 380	Psych. of Health and Illness	4
PSY 430	Psychoactive Drugs	4
one of:		
PSY 275	Educational Psychology	4
PSY 315	Behavior Genetics and Individual Differences	5
PSY 376	Psychological Disorders of Childhood	4
two of:		
PSY 261	Industrial and Organizational Psychology	4
PSY 336	Social Psychology	4
PSY 337	Social Psych. of Justice	4
recommended:		
BIOS 352 or PE55 302	Biomechanics Biomechanics	4 4

BIOS 413 Human Neuroscience 4  
Arts and Sciences degree requirements, major courses, General Education courses, and/or electives.

\*The 120 chemistry sequence is usually sufficient for physical therapy programs. Other biomedical and allied health areas may require the 150 chemistry sequence. The regular psychology major does not require chemistry.

\*\*If you are completing the B.A. in psychology pre-physical therapy and plan to start college-level foreign language with a course beyond 111, you are advised to begin foreign language in your freshman year and to complete PSY 101, PSY 221, and/or SOC 101 in the sophomore year. If you are starting foreign language with 111, begin language courses no later than the junior year.

\*\*\*You may receive up to five hours of credit in PSY 489 for volunteer work in a physical therapy setting. Volunteer hours are required for application to many physical therapy programs.

## Social Work

### Social Work Major (B.A.)

#### Major code BA6601

The Department of Social Work offers a flexible interdisciplinary curriculum designed to prepare you for beginning generalist social work practice. Upon completing the program, you will receive a B.A. with a major in social work. The Department of Social Work is fully accredited by the Council on Social Work Education. Graduates are qualified for full membership in the National Association of Social Workers and eligible for licensing as a social worker in Ohio.

#### Program Requirements

General requirements for a major in social work consist of a minimum of 59 hours of social work courses, plus at least 45 quarter hours of liberal arts foundation courses. Departmental required courses are:

SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an Inst.	4
SW 350	Res. Meth. in Social Work	4
SW 383	Intro to Social Work Practice Methods	4
SW 390	Social Policy	4
SW 393, 394	Dyn. of Human Behavior I, II	8
SW 396, 397, 398	Social Work Practice I, II, III	12
SW 491A, 491B, 491C	Integrative Seminar	6
SW 492A, 492B, 492C	Field Practicum	14

#### The following liberal arts foundation courses also are required:

BIOS 103	Human Biology	5
PSY 221	Statistics	5
PSY 273	Child and Adoles. Psych	4
PSY 332	Abnormal Psychology	4
PSY 374 or SW 486 or HLTH 290	Psych. of Adulthood and Aging Aging in America Health Aspects of Aging*	4

\*will not count towards 50 hrs of A&S 200 level or above requirement

In addition to these foundation courses, 27 hours are taken in the social sciences, including at least one course in each of the following areas: anthropology, economics, political science, and sociology. The choice of courses in these disciplines is left to you with the approval of your advisor and the permission of the instructor. You may use social work elective courses to substitute for up to a maximum of four hours of this social sciences requirement.

### Admission to the Professional Major

Admission to the program is divided into two stages: preprofessional and professional. Freshmen are admitted as preprofessional majors (major code ND6603) to work on freshman- and sophomore-level requirements. To be admitted to the professional program, you are required (regardless of whether you are an Ohio University student or a transfer student) to submit an application and admissions essay to the department's screening committee. Applications are accepted during the second full week of each quarter.

forms and guidelines are available from the department. To be considered, you must have completed a minimum of 48 quarter hours (12 quarter hours at OU for transfer students), with a minimum overall g.p.a. of 2.5. In addition, you must have completed (1) both SW 101 and SW 290 with a minimum grade of C in each course; (2) BIOS 103, PSY 221, PSY 273, as well as one course in any two of these areas: anthropology, economics, political science, and sociology; (3) Tier I composition (ENG 151, 152) and quantitative skills (MATH 113 recommended) requirements; (4) at least one quarter of the foreign language requirement other than high school; (5) a paid or volunteer social work experience. Meeting minimal requirements does not ensure admission to the major. To maintain compliance with the Council on Social Work Education student/faculty ratio standards, no more than 40 students are admitted annually.

To enroll in the senior-level practice sequence (SW 396, 397, 398; SW 491A–C; SW 492A–C), you must have been admitted to the major. In addition, you are expected to have (1) maintained an overall g.p.a. of 2.5; (2) completed one year of the foreign language requirement; and (3) completed all prerequisites for the sequence.

### Social Services Minor

#### Minor code OR6602

Minor requirements consist of a minimum of 29 hours including SW 101, 190, 290, 390, and at least four other social work courses at the 300 level or above. The minor does not make you eligible for licensure in states regulating the practice of social work.

## Sociology

### Sociology Major (B.A.)

#### Major code BA4251

The major requirements for the B.A. in sociology are a minimum of 45 quarter hours of courses in sociology, of which at least 16 hours must be at the 400 level, and including:

SOC 101	Intro to Sociology	4
SOC 351	Elem. Research Tech.	4
SOC 403 or SOC 404	Dev. of Sociol. Thought Mod. Sociol. Theory	4
PSY 221 or MATH 250, MATH 251, COMS 301, QBA 201, ISE 304, ISE 305	Statistics	5

Students must complete courses in each of the four areas listed below as part of the forty-five hours in the major.

#### Social Inequality. At least one of the following

SOC 230	Sociology of Poverty	4
SOC 329	Race and Ethnic Relations in the U.S.	4
SOC 331	Class and Social Inequality	4
SOC 429	Soc of Race, Ethnicity and Class	4
SOC 435	Soc of the Welfare State	4
SOC 470	Sociology of Gender	4

#### Societal Institutions. At least one of the following

SOC 220	Introduction of the Family	4
SOC 233	Sociology of Sport	4
SOC 424	Urban Sociology	4
SOC 430	Sociology of Organization	4
SOC 432	Political Sociology	4
SOC 433	Sociology of Occupations	4
SOC 464	Law and Social Control	4
SOC 465	Social Change	4

**Social Psychology. At least one of the following**

SOC 210	Social Psychology	4
SOC 211	Collective Behavior	4
SOC 315	Social Identities	4
SOC 412	Public Opinion	4
SOC 416	Society and the Individual	4
SOC 419	Group Processes	4

**Integrative Topics. At least one of the following**

SOC 261	Deviant Behavior	4
SOC 340	Population and Society	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Social Movements	4
SOC 421	Comparative Studies of the Family	4
SOC 422	The American Family System	4
SOC 467	Violence to Women	4
SOC 471	Gender and Justice	4

(Courses in anthropology count toward the Arts and Sciences social sciences requirement.)

**Sociology Minor**  
**Minor code OR4251**

The requirement for the minor is a minimum of 28 hours of coursework in sociology, of which at least 16 hours must be at the 300 or 400 level; SOC 101; 351, and 403 or 404.

**Sociology—Criminology Major (B.A.)**  
**Special curriculum; major code BA4253**

The criminology program is designed for students who plan to pursue a career in some aspect of the criminal justice system (e.g., corrections, probation, parole, or law enforcement) yet wish to receive a liberal arts education. Possibilities after graduation include employment in criminal justice or further study in law, criminology, or criminal justice. You will receive a degree in sociology with the specialization in criminology noted. You are encouraged to enter the program as a freshman to help ensure completion in four years.

**Required courses (29 credit hours)**

SOC 101	Intro to Sociology	4
PSY 221	Statistics	5
or MATH 250, MATH 251, COMS 301, QBA 201, ISE 304, ISE 305		
SOC 260	Criminal Justice	4
SOC 351	Elem. Research Techniques	4
SOC 362	Criminology	4
SOC 366	Soc. of Correction	4
SOC 403* or SOC 404	Devel. of Soc. Thought Modern Soc. Theory	4

**Criminology options: Take four courses for 16–22 credit hours**

SOC 261	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 364	Police and Society	4
SOC 365	Soc. of Mental Illness	4
SOC 367	Corporate and Governmental Crime	4
SOC 464	Law & Social Control	4
SOC 467	Violence Against Women	4
SOC 471	Gender & Justice	4
SOC 495	Internship in Criminology	5–10

**Collateral sociology courses: Take three courses for 12 credit hours**

SOC 201	Social Problems	4
SOC 211	Collective Behavior	4
SOC 230	Soc. of Poverty	4
SOC 329	Race and Ethnic Relations in the U.S.	4

SOC 331	Class & Social Inequality	4
SOC 450	Data Analysis	4

**Total credit hours: 57–68**

The following courses are highly recommended, and you are encouraged to take some of them to satisfy the College of Arts and Sciences 18-hour social sciences requirement. Check the Courses of Instruction section for prerequisites.

PSY 332	Abnormal Psychology
PSY 337	Social Psychology of Justice
POLS 404	Civil Liberties
POLS 409	Criminal Procedure

\* Preferred

**Sociology—Prelaw**  
**Special curriculum; major code BA4254**

If you are in the College of Arts and Sciences and plan to enter law school, you will complete the specific requirements for the Bachelor of Arts degree. No special curriculum is prescribed. As a prelaw major, you may complete a major of your principal interest. The Departments of Economics, English, History, Philosophy, Political Science, and Sociology have designated prelaw advisors. For further information, see "Law" in this section.

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**Spanish**

See Modern Languages.

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**Theater**
**Major code BA5131**

This curriculum is intended to serve students who want both a theater major and a broad liberal arts foundation for their university education. It includes a study of theater in the context of human concerns and activities by establishing a solid foundation of course-work in the humanities, sciences, cultures, and languages. It recognizes that many students in the major possess varied talents and interests. You will benefit from the rigorous artistic demands made by courses designed for B.F.A. students in the School of Theater, while also meeting the challenges of a liberal arts education. Although you are encouraged to select courses that provide an emphasis for your work, you are not permitted to major in any one area of theater or to concentrate exclusively on any one area of interest.

The B.A. program also provides an opportunity to major in more than one discipline. Second majors such as: English, history, creative writing, journalism, music, criminal justice administration, prelaw, and sociology have been successful choices.

One of the goals of the B.A. in theater is the preparation of the most gifted students for successful admission to graduate schools or other advanced training in theater or other areas. However, even if you do not wish to extend your training beyond the baccalaureate level, the B.A. in theater addresses both the quality and the diversity of your training.

In addition to general education and arts and sciences area requirements, the theater major includes:

THAR 101	Intro and Orientation to the Theater as a Profession	1
THAR 111 or THAR 113	Acting Improvisation Acting Fundamentals I*	2 4
THAR 130	Design Prin. for the Stage	3

THAR 131	Practical Elements of Stagecraft	3
THAR 171	Play Analysis	3
THAR 172	Elements of Performance	3
THAR 150 or THAR 420	Playwriting Directing	4

5 quarters of practicum (10 hours) distributed over more than one area (you will work with your advisor to ensure correct distribution)

12 quarter hours from the following:

THAR 270	Theater History I	4
THAR 271	Theater History II	4
THAR 272	Theater History III	4
THAR 470	Tragedy	4
THAR 471	Comedy	4
THAR 472	Forms of Drama	4
THAR 473	Seminar in Theater History and Drama	4
THAR 477	Amer. Theater and Drama	4
THAR 479	Independent Studies in Theater Hist. and Crit.	1-6

\*THAR 113 is preferred. No credit for 113 if you have credit for 111.

The balance of the degree program will consist of 30 credit hours at the 200 level or above in the School of Theater. No more than 24 credit hours may count toward the degree in one (narrow) area of interest, e.g., acting, lighting, publicity, playwriting, etc. No more than 8 hours of practicum (beyond the core requirement) may count toward the degree.

You must submit a plan for the distribution of the 30 credits for consultation and approval by your advisor as a condition of your final acceptance into the major program. While sufficient flexibility for change of direction and focus must be provided throughout your residence, there must be and agreed-upon understanding of the purpose of the program of study and the plan for accomplishing that purpose.

The total requirement for a B.A. in theater is 70 credit hours. Note: No more than 72 credits in THAR courses are allowed to count towards the 192 credits needed for the B.A.

## Theology

See English, History, or Philosophy—Pretheology.

## Undecided

### Major Code ND0410

If you have not settled on a major but wish to be enrolled in the College of Arts and Sciences to benefit early on from this advising perspective, you may apply to Ohio University as an undeclared or “undecided” major in Arts and Sciences. While on average, most students choose a major within the first four quarters of exploration, you are allowed to earn up to 90 credit hours before you must select a degree program.\*

\* Students with 45 or more credits transferring from other colleges within Ohio University may not select the undecided major. Transfer students from other universities are not eligible to enroll as undeclared in Arts and Sciences.

## Virology

See Biological Sciences—Microbiology

## Women's Studies Certificate Program

This program is available to complement any baccalaureate degree program offered by the University. The requirements for the certificate are 30 hours total including:

### 16 quarter hours:

WS 100	Intro to Women's Studies	4
WS 200	Issues in Feminism	4
WS 250	Hist. of Feminist Thought	4
WS 400	New Scholarship on Women	4

### 14 quarter hours from the following\*:

AAS 345	The Black Woman	4
AAS 482	The Black Family	4
ANTH 345	Gender in Cross-Cultural Perspective	4
ANTH 349	Life History: The Individual and Culture	4
ANTH 363	Gender in Prehistory	4
CLAS 343	Women in the AncientMediterranean	4
EDCI 492M	**Philosophy of Gender in Edu.	4
ENG 153A	Writing and Reading: Gender	5
ENG 270E	**19th Century British Literature	4
ENG 271D	**Comparative Genres	4
ENG 306J	Women and Writing	4
ENG 325	Women and Literature	4
ENG 326	Lesbian and Gay Literature	4
ENG 445	**The Female Gothic Tradition	4
ENG 447	Studies in Criticism: Contemporary Feminist Theory Senior Seminar	4
ENG 460	**Special Topics: Popular and Elite: Culture, Race, Class, and Gender in the American Renaissance4	4
ENG 464	**Major English Authors: Woolf and Winterson	4
ENG 464	**Major English Authors	4
ENG 466	**Major Int'l. Authors: Contemporary Narratives of Exile	4
HCCF 360	Human Sexuality	4
HCCF 462A	Diversity in Families	3
HIST 320A	Women in American History Before 1877	4
HIST 320B	Women in American History Since 1877	4
HIST 320C	Women's Health and Medicine in U.S. History	4
HIST 332	Women in the Middle East	4
HIST 354A	History of Early Christianity	4
HIST 360A	Women in Early Modern Europe	4
HIST 360B	Women in Modern Europe	4
HIST 360C	Women Warriors	4
HIST 369P	Women in Medieval Europe	4
HIST 371	Witchcraft 1400-1750	4
HIST 381	History of the Family	4
HIST 453D	Studies in Medieval History: Women in Medieval Society	4
HLTH 210	Health of Women	4
ILML 335	*Italian Literature in English: Women of the Italian Middle Ages	4
ILML 336	*Gay and Lesbian Writers in Latin America	4
ILML 339A	Nineteenth-Century Russian Literature in English	4
ILML 339B	Twentieth Century Russian Literature in English	4
COAS 420	Gender and Comm	4
COAS 422	Comm in the Family	4
LING 390	Lang of Women and Men	3
MGT 462	Women in Management	4

PESS 400	Women in Sports	3
PHIL 491	**Feminist Philosophy	4
FILM 471	** Film Topics Seminar: Masculinity and Film	4
POLS 319	Gay and Lesbian Politics	4
POLS 420	Women, Law, and Politics	4
POLS 421	Politics of Law and Sexuality	4
POLS 478	Feminist Political Theories and Movements	5
POLS 490	**Studies in Political Science:Gender and Political Development in Africa	4
POLS 490H	**Women in Politics	4
POLS 490T	**Feminist Legal Theory	4
POLS 490U	**Deconstructing Barbie	4
PSY 378	Psychology of Gender	4
SOC 220	Introduction to the Family	4
SOC 407	Feminist Social Theory	4
SOC 421	Comp. Studies of Family	4
SOC 422	The American Family System	4
SOC 467	Violence Against Women	4
SOC 470	Sociology of Gender	4
SOC 471	Gender and Justice	4
SPAN 435	**Pro-Seminar: An interdisciplinary Look at the Role of Women in Latin Am. Literature and Politics	4
TCOM 481	Women and the Media	4
TCOM 486A	Age, Class, Gender, Race, and Sexual Orientation in the Media	4
TCOM 486G	**Women and Media Workshop	4
WS 360	Women and Work Internship	4
WS 493	Special Topics	4

\* Contact the Women's Studies office for advising, for information on additional courses, and to register for the certificate. The Women's Studies Certificate is awarded upon graduation from Ohio University, and the award is recorded on your transcript. Consult with the Women's Studies advisor before the deadline for graduation to ensure that the certificate will be awarded.

\*\*Credit is awarded for the specific subtitle only in special topics courses. Actual course numbers may vary.

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## World Religions

See Classics and World Religions.

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## Zoology

See Biological Sciences.



# College of Business

Copeland Hall

Glenn Corlett  
*Dean*

Nanda Rangan  
*Associate Dean*

John Day  
*Associate Dean*

Michael Bila  
*Assistant Dean,  
Office of Student Services*

The College of Business seeks to prepare men and women for professional careers in business, government, and nonprofit organizations. Consistent with its mission, the college provides a base of liberal education needed by all educated persons in our society, business-oriented instruction in professional fields, and a close association with other colleges to promote knowledge and understanding from a variety of sources.

Business instruction and research revolve around three themes: preparing the manager for a variety of business activities; developing analytical skills; and fostering a critical awareness of the social, political, and economic environment in which decisions are made.

The academic departments offer major fields of study in accounting, business prelaw, finance, general business, human resource management, international business, management, management information systems, and marketing. A major in business economics is also available.

The College of Business has been an accredited member of the AACSB—The Association for the Advancement of Collegiate Schools of Business since 1950.

## Advisory Committees

The Executive Advisory Board of the College of Business, the formal external arm of the college, serves as a representative of the business community at large. The board is a group of professionals, managers, and executives who review and advise the college on activities necessary to accomplish college missions from the perspective of the business community. The board meets with the dean, faculty, and students twice a year to give advice on college programs. Members are often on campus to speak to student organizations or classes and to participate in special college programs. The board is extremely helpful to the college's continuing efforts to maintain excellence in education for future business leaders.

The Society of Alumni and Friends of the College of Business, made up of graduates, friends, and former students of the college, functions as the alumni relations arm of the college. Since 1982 this society has provided innovative and meaningful alumni involvement in sponsorship, planning and support, alumni awards, recruitment, etc. The 12-member board of directors of the society formally meets on the Athens campus twice a year and initiates yearly alumni receptions in many other cities.

## Honorary and Professional Organizations

The College of Business seeks to improve the quality of its programs and provide educational development opportunities for its students through its honorary and professional organizations.

Beta Gamma Sigma, the national scholarship society founded in 1913 to encourage and reward scholarship and accomplishment among students of business administration, has an active chapter at Ohio University. Beta Alpha Psi is a national accounting honorary that elects its members on the basis of scholastic achievement in accountancy courses.

Students also are encouraged to participate in student professional organizations, including Alpha Kappa Psi, a professional business fraternity; Alpha Upsilon chapter of Delta Sigma Pi, a professional business fraternity; Phi Alpha Delta, a national prelaw fraternity; Phi Gamma Nu, a professional business fraternity; Gamma Iota Sigma, an insurance fraternity; the Accounting Club; the American Marketing Association; the Association of Collegiate Entrepreneurs; the Association of Information Technology Professionals; CoB Leaders for the Encouragement and Advancement of Diversity; the Financial Management Society; the International Business Society; the Management Science Society; the Society for Advancement of Management; the Society for Human Resource Management; X-Sell (professional sales); and the M.B.A. Student Association.

## Career Resources

The College of Business offers an internship program to assist students in securing practical experience during their college career. In today's job market, recent graduates are expected to have job-related experience. Internships are available for all College of Business majors, and undergraduates can earn academic credit for career-related job experience. Multiple internships are encouraged.

The Career Resources Office of the College of Business encourages organizations to interview students on campus and frequently refers resumes to interested employers. Many companies seeking interns or offering full-time positions partner with the College. Company representatives offer professional development seminars and workshops, and participate in class projects and student organization programs. A small sampling of participating companies includes: Cardinal Health, AT&T Network Systems, The Handleman Company, Philip Morris, Progressive Insurance, University Directories, Bisys Fund Services, Enterprise Rent a Car, JC Penney, Wal-Mart, Ford Motor Company, American Electric Power, Wachovia Corporation, Wells Fargo, Cohen & Company, American Management Systems, Bank One, Deloitte & Touche, Ernst & Young, J.M. Smucker Company, KPMG, National City Corporation, Nationwide Insurance, PriceWaterhouseCoopers, Procter & Gamble, Cintas, CDW, and EDS. In addition, the College hosts an Internship Fair each year. There have been a growing number of companies expressing interest in our students and attending the fair.

Students and employers are encouraged to contact Angela Anderson, Assistant Dean for Career Resources, at 740.593.2009 or andersoa@ohio.edu for more information.

## Education Abroad

The Center for International Business Education and Development offers study-abroad opportunities for students in the College of Business. The Global Competitiveness Program offers several opportunities during the first summer session in 2003, including locations in Germany, Hungary, Spain, France, China, Italy, and Greece. Students in these programs earn 12 credit hours from various courses in

business. Highlights include consulting projects with area firms and the opportunity to experience local cultures.

Another program offered by the Center for International Business Education and Development during first summer session each year is the London Program. Students in this program earn 8 credit hours. This program is open to students across the University.

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740.593.2021, fax 740.593.1388, e-mail cibed@ohio.edu.

You may receive credit for other overseas programs offered by Ohio University or other U.S. colleges after making arrangements with your advisor and the College's Office of Student Services.

## International Exchange Programs

The College of Business has exchange programs with Amsterdam School of Business, the Netherlands; University of Limburg, Belgium; Sup de Co Rennes, France; Sup de Co Clermont, France; Helsinki School of Economics, Finland; University of Vaasa, Finland; Asturias Business School, Spain; and Kiel University, Germany. Students at the junior and senior level may spend a semester or a year (two semesters) at one of these schools and receive credit for core and elective business courses in the Ohio University curriculum.

Language requirements vary, as many courses are taught in English.

Tuition is paid directly to Ohio University at current rates. You pay your own living costs (travel, room, board, books, insurance, personal needs, etc.).

For more information, contact the director, Center for International Business Education and Development, Copeland Hall 514C, telephone 740.593.2021, fax 740.593.1388.

For additional information about education abroad, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

## Global Learning Community

For information about the Global Learning Community, refer to "Global Learning Community Certificate Program" in the "University-Wide Academic Opportunities" section.

## Enrollment Policies

### Freshman Policy

Freshmen will be admitted into the college on a selective basis. Normally, you will need to be in the top 20 percent of your high school class with a strong college preparatory curriculum. You are expected to have above-average ACT or SAT scores, and also have demonstrated leadership potential through participation in extracurricular activities or work experience. Members of groups that are historically underrepresented in business will receive special consideration.

### Transfer Policy

A limited number of students from other colleges within Ohio University and from other institutions of higher education will be permitted to transfer to the College of Business. Applications for transfer are available from the college.

Any student considering transfer to the college is strongly encouraged to contact the College's Office of Student Services as early as possible. You must be enrolled in the college before your senior year to allow for the college's 48-hour residency requirement. You must earn at least 50 percent of the business credit hours required for the business degree at Ohio University.

There are two conditions under which you are eligible to be considered for transfer into the College. One condition is that you have completed, ECON 103, ECON 104, MATH 163A, and ENG 151, 152, or 153, or equivalent courses, and have an accumulative g.p.a. of 3.0 or higher. The second condition is that you have an overall 2.75 g.p.a. and a 3.0 g.p.a. or better in the five courses listed above.

**You cannot be guaranteed admission even though you meet the above criteria.** The College admissions committee will admit transfer students up to the college's enrollment ceiling. Students judged to have the highest probability of success will be admitted. Members of groups that are historically underrepresented in business will receive special consideration.

Applications for transfer into the college will be accepted each spring quarter. The College admissions committee reviews applications once per year at the close of spring quarter. Successful applicants will be admitted to the College during the summer

quarter. Application information may be obtained from the Office of Student Services at 214 Copeland Hall.

To transfer from another university, submit the standard documents required by the Office of Admissions, as well as the application for the College of Business. You will be notified as early as possible of the admission decision.

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### **Freshman Drop Policy, Academic Probation, and Dismissal**

In addition to the University regulations listed in the Academic Policies and Procedures section, the college has established probation and drop regulations.

#### **Freshman Drop Policy**

Any freshman admitted to the College of Business on the Athens campus during the fall quarter who has earned less than a 2.5 accumulative g.p.a. after his or her first three academic quarters will be dropped from the College of Business.

Grades will be reviewed at the end of spring quarter. Freshmen with an accumulative g.p.a. that is less than 2.5 at that time will have a "hold" put on their academic records, making them unable to register for future classes until they transfer out of the College of Business and into another Ohio University college for which they are eligible.

Students should realize that if they are dropped from the College of Business, the prospect of transferring back into the College is unlikely. This is due to the high level of interest and the limited number of positions available to transfer students.

#### **College Probation and Dismissal**

At the close of a quarter in which your accumulative g.p.a. falls below a 2.2, you will be placed on college probation. You will remain on college probation until your accumulative g.p.a. is above 2.2, but for no longer than two quarters. If you have not raised your accumulative g.p.a. to at least 2.2 after two quarters of college probation, you will be dismissed from the College of Business. If you are dismissed from the College of Business with a g.p.a. based on these college probation standards, but do not qualify for academic dismissal under the University standards, you may be

able to transfer into another college within Ohio University. At that time the Ohio University standards for University-level academic probation and dismissal will apply.

It is important to be aware that the minimum academic standards for the College of Business are at a higher level than the minimum academic standards for Ohio University. Please familiarize yourself with the University policy for academic probation and dismissal, which can be found in the Academic Policies and Procedures section of this catalog.

#### **Retaking a Core Course**

You will be limited to three attempts at the college's core courses. If you have made three unsuccessful attempts at a required core course, you will be notified that you have been dropped from the college.

To attempt a course is to be enrolled long enough for the course to appear on the transcript or grade report. A letter grade, W, WP, WF, or grade replacement counts as an attempt. Attempts at another institution count toward the limit if you take the course as a transient student after enrollment in the College of Business.

Core courses include ACCT 101 and 102; BA 100A, 100B, and 370; BUSL 255; FIN 325; MGT 202; MIS 201 and 202; MKT 202; OPN 310; PRCM 150, and 325J; and QBA 201.

BUSL 255, MGT 202, MIS 202, and MKT 202, may be taken in a 16-credit-hour cluster during your sophomore year (see recommended course sequence) or you may take these courses on a stand-alone basis. If these courses are taken on a stand-alone basis, then you must take BA 370, FIN 325, OPN 310, and PRCM 325J in the cluster format. Depending on the course or courses involved, students failing one course in a cluster may be required to retake the course in its stand-alone form, and students failing more than one course in a cluster may be required to retake the entire cluster.

BA 370, FIN 325, OPN 310, and PRCM 325J are offered in a 16-hour cluster at the junior senior level (see recommended course sequence) or you may take these courses on a stand-alone basis. If these courses are taken on a stand-alone basis, then you must take BUSL 255, MGT 202, MIS 202, and MKT 202 in the cluster format. Students failing a course in a junior

level cluster must obtain permission to be allowed to repeat the course. Students failing multiple courses in a cluster may be required to retake the entire cluster.

If you need to retake a core course that is part of a cluster, go to the Office of Student Services to determine what needs to be done and obtain permission to get into the appropriate classes.

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### **Minors**

College of Business students may choose to complete a minor offered by another area within the University.

Students who are not enrolled in the College of Business may complete a business minor. Requirements for the minor are listed at the end of the business curricula.

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of courses in the business curriculum.

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### **Preparation for Law School**

If you are in the College of Business and plan to enter law school, you should follow the B.B.A. degree curriculum and also select, with the approval of your advisor, courses in other fields, especially American government, American and English history, English, philosophy, interpersonal communication, and additional theory courses in the College of Arts and Sciences, except those that substantially duplicate material found in the typical law school curriculum.

The Ohio Supreme Court's regulations governing the admission to the practice of law in Ohio require that, as a student entering law school, you be able to show possession of an undergraduate degree from an approved college if you wish to take the Ohio Bar Examination. However, the court provides for one possible exception—if you have earned, subsequent to graduation from law school, a bachelor's degree through completion of courses and credits other than those received in law school, and have a record of academic achievement that is satisfactory to the Ohio Supreme Court, you may be permitted to apply for admission to the practice of law in Ohio. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring an undergraduate

degree of all entering students, regardless of the state in which they plan to take the bar examination.

A degree *in absentia* program is available for students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school. If you desire to (1) enter, at the end of three years of college work, a school of law located outside Ohio and (2) receive a B.B.A. from Ohio University after completing the first year in law school, you may do so provided you have obtained the written approval of the dean of the College of Business; you have completed a minimum of 144 quarter hours, including the required courses in the B.B.A. curriculum (BUSL 255 excluded), with a g.p.a. of 2.0 on all hours attempted; you have completed a full year's work in an accredited law school with an average equivalent to that prescribed for the bachelor's degree at Ohio University; and you are eligible for advancement without condition to the second year.

If there is any possibility that you might wish to take the Ohio Bar Examination, you are urged to obtain an undergraduate degree before entering law school.

## Requirements for All B.B.A. Majors

As a candidate for the Bachelor of Business Administration (B.B.A.) degree, you must complete the University's General Education Requirements for graduation and fulfill a minimum of 192 quarter hours of credit with a g.p.a. of 2.2 for all hours attempted. You must also maintain a 2.2 g.p.a. for courses taken in business and economics, and a 2.2 g.p.a. for courses in your major. The College of Business limits transfer credit for required business courses taken at a lower level to such courses as it offers at that lower level. Other transfer credits accepted by the University are evaluated as either business or nonbusiness electives.

Courses included in the 192-hour minimum for the B.B.A. must be chosen so that at least 79 quarter hours are earned in areas of business and economics and at least 96 quarter hours are earned in nonbusiness areas.

### Majors

All B.B.A. candidates must complete a core of courses covering the tools of analysis and the operational fields of business plus the requirements for one of the following majors:

<b>Accounting</b>	<b>Human Resource Management</b>
<b>Business Economics</b>	<b>International Business</b>
<b>Business Prelaw</b>	<b>Management &amp; Strategic Leadership</b>
<b>Finance</b>	<b>Management Information Systems</b>
<b>General Business</b>	<b>Marketing</b>

The Business Prelaw, Business, and International Business majors require the completion of a second major. You can change your major or add a second major through the Office of Student Services.

### Core Curriculum

The following courses are taken individually: BA 100A, 100B; ACT 101, 102; QBA 201; PRCM 150 and MIS 201.

At the sophomore and junior level, business core courses are grouped into two clusters:

#### Business Context

BUSL 255, MGT 202, MIS 202, and MKT 202

#### Introduction to Business Systems

FIN 325, OPN 310, BA 370, and PRCM 325J

You must take at least one of the two core clusters in the fully integrated format. Core cluster sections offered in this format are identified in each quarter's *Schedule of Classes* under the "Business Cluster" section. The decision to take individual courses from either of the clusters on a stand-alone basis can have drastic consequences and should be discussed with an academic advisor.

#### Nonbusiness Requirements

You must complete the following nonbusiness courses:

##### Communications: 8 hours

ENG 151, 152, or 153	Freshman Composition	5 (1E)
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##### Mathematics: 8 hours

MATH 163A	Intro to Calculus	4 (2N)
MATH 250	Intro to Probability	4

##### Economics: 8 hours

ECON 103	Prin. of Microeconomics	4 (2S)
ECON 104	Prin. of Macroeconomics	4 (2S)

##### Performance Portfolio: 8 hours

ART 112	Intro to Photography	4
ART 113	Intro to Photography	4
ART 116	Drawing I: Descriptive Process	4
ART 117	Drawing II: Concepts, Space, and Time	4
ART 118	Drawing III: Process and Synthesis	4
COMS 103	Public Speaking	4
DANCE	101A-103C, 201A-203A, 201B, 202B	varies
FILM 340	Film Techniques	4
FILM 343	Scriptwriting	4
HSL 107	Voice and Articulation	2
COMS 205	Group Discussion	4
COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Comm. and Persuasion	4
COMS 410	Cross-Cultural Commun.	4
JOURN 133	Precision Language	4
MUSIC	141A, 142A, 143A, 147A, 165A, 166A, 215A-361	2-4
ROTC 201	Basic Skills III	2
ROTC 202	Intro. to Leadership/Team Building	2
TCOM 110	Telecommunication Writing and Production Planning	4
THAR 113	Acting Fundamentals I	4
THAR 213	Acting Fundamentals II	4

##### Internships

Internship credit cannot be double-counted as hours toward major. International internships applied to the Global Perspective requirement will not count toward Performance Portfolio.

ACCT 398 or 498	Internship	1-4
BUSL 398 or 498	Internship	1-4
FIN 398 or 498	Internship	1-4
HRM 398 or 498	Internship	1-4
MGT 398 or 498	Internship	1-4
MIS 398 or 498	Internship	1-4

##### Global Perspective: 12 hours

12 hours of a modern foreign language (211, 212, 213) or successful completion of a 16-hour Global Competitiveness Program experience as outlined under the "Study Abroad" section of the College of Business portion of this catalog (contact the COB Center for International Business

at 740.593.2021 for more information about this option) or 12 hours of approved coursework from one or more departments focusing on a single geographic region from one of the following:

### Asia

ANTH 385	Cult. of Southeast Asia	4
GEOG 338	Southeast Asia	4
HIST 133	Non-Western Hist Since 1750	4
HIST 246	The Rise of Modern Asia	4 (2C)
HIST 344A	Hist. of the Malay World	4
HIST 344B	Hist. of Burma and Thailand	4
HIST 344C	Hist. of Vietnam	4
HIST 345A	Southeast Asia to 1750	4 (2C)
HIST 345B	Southeast Asia 1750 to 1942	4 (2C)
HIST 345C	Southeast Asia 1942 to Present	4 (2C)
HIST 346C	Ancient China	4
HIST 346D	Imperial China 1200-1910	4
HIST 346E	Modern China Since 1911	4
HIST 348A	Traditional Japan	4
HIST 348B	Modern Japan	4
HIST 449	Hist. of East Asia in Modern Times	4
INST 103	Modern Asia	4 (2C)
JPN 250	Japanese Lang. and Cult.	4 (2C)
PHIL 370	Hinduism	4 (2C)
PHIL 371	Buddhism	4 (2C)
PHIL 372	Islam	4 (2C)
PHIL 374	Taoism	5 (2C)
POLS 445	Govt. and Pol. of Japan	4
POLS 447A	Govt. and Politics of Southeast Asia	4

### Africa

AAS 315	Literature of West Africa	4
AAS 316	Literature of South Africa	4
ANTH 381	Cultures of Sub-Saharan Africa	4
GEOG 331	Geography of Africa I	4
GEOG 332	Geography of Africa II	4
HIST 133	Non-Western Hist Since 1750	4
HIST 336A	North Africa in Modern Times	4
HIST 336B	North Africa Since 1914	4
HIST 338	History of West Africa	4
HIST 338A	History of East Africa	4
HIST 341A	Early Africa	4 (2C)
HIST 341B	Traditional Africa	4 (2C)
HIST 341C	Modern Africa	4 (2C)
HIST 342A	South Africa to 1899	4
HIST 342B	South Africa Since 1899	4
HIST 343	Revolution in Southern Africa	4
INST 113	Modern Africa	4 (2C)
POLS 441	Govt. and Pol. of Africa	4
POLS 464	Africa and the OAU	3

### Europe

ECON 353	European Economic Hist	4
FR 348	French Civilization and Culture	4
GEOG 339	Geog. of Western Europe	4
HIST 123	Western Heritage	4
HIST 364B	Contemporary Europe	4
HIST 366B	Modern France	4
HIST 368B	Modern Germany	4
HIST 372C	Balkans in the 20th Century	4
HIST 375	World War I	4
HIST 382A	History of Russia	4
HIST 382B	Communist Revolution	4

HIST 382C	
HIST 382D	
HIST 392C	
INST 118	
ITAL 348	
POLS 432	
RUS 348	
SPAN 348	
SPAN 361	
<b>Latin America</b>	

ANTH 383	Cultures of Latin America	4
GEOG 335	Latin America	4
HIST 123	Western Heritage	4
HIST 323A	Latin American History: Colonial Era	4 (2C)
HIST 323B	Latin American History: 19th Century	4 (2C)
HIST 323C	Latin American History: 20th Century	4 (2C)
HIST 325	Hist. of U.S.-Latin American Relations	4
HIST 426	Dictatorship in Latin American History	4
INST 121	Interdisciplinary Survey of Latin America	4 (2C)
POLS 434	Govt. and Politics of Latin America	4
POLS 435	Revolution in Latin America	4
SPAN 349	Spanish American Civilization and Culture	4
SPAN 361	Understanding Spoken Spanish	4

### Middle East

ANTH 388	Cultures of the Middle East	4
HIST 133	Non-Western Hist Since 1750	4
HIST 332	History of Women in the Middle East	4
HIST 333	Oil, Energy, and International Diplomacy	4
HIST 334	The Arab-Israeli Dispute	4
HIST 335A	Survey of Middle East History to 1800	4 (2C)
HIST 335B	Survey of Middle East History Since 1800	4 (2C)

### Breadth Cluster: 32 hours

One approved course from each of the following areas:

#### Ethical issues

8A 480	Ethics and Morality in Business	4
JOUR 412	Ethics, Mass Media, and Society	3
PHIL 130	Intro to Ethics	4 (2H)
PHIL 231	Philosophy of Sport	4
PHIL 235	Business Ethics	3
PHIL 330	Ethics	5
PHIL 331	Moral Problems in Medicine	4
PHIL 332	Philosophy of Sex and Love	4

#### Diversity issues

AAS 106	Intro to African Amer. Studies	4
AAS 150	Intro to Black Media	5 (2H)
AAS 220	Theories of African Amer. Social Development	4
AAS 250 (2H)	Foundations of African Amer. Arts and Culture	4
AAS 341	African Amer. Personality	4
AAS 345	The Black Woman	4
AAS 350	African Amer. Arts and Artists	4 (2H)
AAS 352	Blacks in Contemporary Amer. Cinema	4 (2H)
AAS 482	The Black Family	5
ANTH 345	Gender in Cross-Cultural Perspective	4
HIST 302	American Indians	4
HIST 313	Jews in American History	4
HIST 315B	Hist. of African Americans Since 1865	4 (2S)
HIST 320B	Women in Amer. Hist. Since 1877	4
HIST 427	Health of Women	4

COMS 420	Gender and Communication	4
POLS 306	Politics of Appalachia	5
POLS 319	Gay and Lesbian Politics	4
POLS 323	Black Politics in the U.S.	4
POLS 420	Women, Law, and Politics	4
POLS 478	Feminist Political Theory and Movements	5
SOC 309	Sociology of Appalachia	4
WS 100	Intro to Women's Studies	4 (2H)
WS 200	Issues in Feminism	4

**Economics**

If your major is accounting, management information systems, management, human resource management, business law, general business, international business, entrepreneurship, or business economics, take any 300- or 400-level economics course except ECON 300, 307, or 381. If your major is finance or marketing, take ECON 305.

**Political/legal/social issues**

AAS 202	African American Hist. II 1865 to Present	4 (2S)
AAS 254	History of Injustice in the U.S.	5
AAS 360	Black Politics in the U.S.	4
AAS 364	Comp. Study of Injustice	4
AAS 368	Black Political Thought	4
AAS 370	Urban Violence	4
AAS 430	Social Theories of Underdevelopment	4
BUSL:	any course except 255 and course used to satisfy major or other requirements	
ECON 213	Current Econ. Problems	4
ECON 315	Economics of Health Care	4
ECON 316	Economics and the Law	4
GEOG 121	Human Geography	4 (2S)
GEOG 131	World Regional Geog.: Third World	4 (2T)
GEOG 132	World Regional Geog.: Industrial World	4 (2S)
GEOG 220	Economic Geography	4 (2S)
HIST 101, 102, or 103	Western Civilization in Modern Times	4
HIST 121 or 122	Western Heritage	4
HIST 200, 201	U.S. History	4
POCO 201	Intro to Political Communication	3
POLS:	any course except 306, 319, 323, 420, 425, 428	
SOC 223	American Society	4 (2S)
SOC 230	Sociology of Poverty	4
SOC 231	Sociology of Health and Health Care	4
SOC 240	The Future of Society	4
SW 101	Intro to Social Welfare and Social Work	3 (2S)

**Recommended Course Sequence****Freshman**

BA 100A	Intro to Coll. of Business I	1
BA 100B	Intro to Coll. of Business II	1
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151, 152, or 153	Freshman Composition	5
MATH 163A	Intro to Calculus	4
MATH 250	Intro to Probability	4
PRCM 150	Business Comm. Basics	4
Approved electives (nonbusiness requirements)		21

Note: see Freshman Drop Policy, page 113

**Sophomore**

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
MIS 201	Intro to Microcomputers	3
QBA 201	Intro to Statistics	4

<b>Business Context Cluster</b>		
BUSL 255	Business Law	4
MGT 202	Management	4
MIS 202	Business Info. Systems	4
MKT 202	Marketing Principles	4
Approved electives (nonbusiness requirements)		17

**Junior**

<b>Introduction to Business Systems Cluster</b>		
BA 370	Administrative Policy	4
FIN 325	Managerial Finance	4
OPN 310	Principles of Operations	4
PRCM 325J	Prof. Communication	4
Major courses and approved electives		32

**Senior**

Major courses and remaining electives		48
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**At least one core cluster must be taken in the fully integrated format. Students choosing to take only one cluster will take the courses in the remaining cluster on a stand-alone basis. See each quarter's Schedule of Classes in the Business Cluster Section.**

**Accounting Major****Major code BB6121**

The mission of the School of Accountancy is to prepare bright men and women for successful careers in the accounting profession. We provide a superior education with competent professors who challenge their students to excel and who support their students' professional aspirations.

Students who perform well in the undergraduate program can earn the M.S. in Accountancy, in addition to the B.B.A., by completing a fifth year of study as a graduate student. Additional information about this program is available from the *Graduate Catalog* or by contacting the School of Accountancy.

**Program Requirements**

Accounting majors must complete the college's business core curriculum, professional performance portfolio, global perspective requirements, and the breadth cluster of courses. BUSL 357 is required to fulfill the political/legal/social area of the Breadth Cluster. The major consists of seven required accounting courses. Timely enrollment in the major courses is essential to completion of the degree within four years. These courses are listed below. Accounting majors should take ACCT 101 and ACCT 102 in their freshman year.

For information about the CPA exam, visit the Accountancy Board on the Web at <http://www.acc.ohio.gov/>

**Major courses required of all accounting majors**

ACCT 317	Federal Income Taxes	4
ACCT 303, 304, 305	Inter. Accounting	12
ACCT 310	Cost Accounting	4
ACCT 345	Accounting Systems and Internal Control	4
ACCT 451	Auditing Principles	4

**Recommended Course Sequence****Freshman****Fall quarter**

BA 100A	Intro to the Coll. of Bus.	1
ECON 103	Prin. of Microeconomics	4
MATH 163A	Intro to Calculus	4
Breadth/performance/global		8

**Winter quarter**

BA 100B	Intro to the Coll. of Bus.	1
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ACCT 101	Financial Accounting	4
ECON 104	Prin. of Macroeconomics	4
MATH 250	Intro to Prob. and Stats.	4
	Breadth/performance/global	4
<b>Spring quarter</b>		
ACCT 102	Managerial Accounting	4
ENG 15x	Freshman Composition	5
	Breadth/performance/global	8
<b>Sophomore</b>		
<b>Fall quarter</b>		
QBA 201	Intro to Business Statistics	4
ACCT 303	Intermediate Acct. I	4
	Breadth/performance/global	8
<b>Winter quarter</b>		
ACCT 304	Intermediate Acct. II	4
MIS 201	Intro to Microcomputers	3
	Breadth/performance/global	8
<b>Spring quarter</b>		
ACCT 305	Intermediate Acct. III	4
	Breadth/performance/global	12
<b>Junior</b>		
<b>Fall quarter</b>		
ACCT 310	Cost Accounting	4
	Elective	4
	Breadth/performance/global	8
<b>Winter quarter</b>		
	Business systems cluster	16
<b>Spring quarter</b>		
ACCT 317	Federal Income Taxes	4
ACCT 345	Internal Control	4
	Breadth/performance/global	8
<b>Senior</b>		
<b>Fall quarter</b>		
ACCT 451	Auditing Principles	4
	Electives	8
	Breadth/performance/global	4
<b>Winter quarter</b>		
	Electives (or Internship)	12
<b>Spring quarter</b>		
	Electives	12
	Tier III course	4
<b>Junior transfers to the accounting major should follow this course sequence assuming they have completed sophomore level business courses:</b>		
<b>Junior Transfer</b>		
<b>Fall quarter</b>		
ACCT 303	Intermediate Acct I	4
ACCT 310	Cost Accounting	4
<b>Winter quarter</b>		
ACCT 304	Intermediate Acct. II	4
<b>Spring quarter</b>		
ACCT 305	Intermediate Acct. III	4
ACCT 345	Internal Control	4
<b>Senior Transfer</b>		
<b>Fall quarter</b>		
ACCT 451	Auditing Principles	4
	Can elect 345	4
<b>Winter quarter</b>		
	Junior Cluster	16
<b>Spring quarter</b>		
ACCT 317	Federal Income Taxes	4

Not all accounting courses are offered every quarter. Check with your advisor or the School of Accountancy to make sure you can take courses when you plan.

## Business Economics Major

### Major code BB6124

The B.B.A. business economics major, designed to provide a broad business background, is intended for those who plan careers in business and economic research for both private firms and government, in banking, and in marketing analysis. It also is an important component for business management, law, operations, and financial analysis.

In addition to completing the B.B.A. core requirements, you must complete at least 20 additional hours of economics including ECON 304 and 385. ECON 380 and 381 cannot be counted toward this requirement. No economics course can be counted toward both nonbusiness and major requirements.

## Business Prelaw Major

### Major code BB6120

While law schools do not prescribe any rigid undergraduate curriculum, a substantial number of prelaw students choose one of the business fields of study as their major for the baccalaureate degree. You may wish to combine the business prelaw major with one of the other majors in the College of Business if the profession of law is your ultimate career goal.

The business prelaw major recognizes the business and economic emphasis of the practice of law and also provides the breadth of training and philosophical background that is conducive to success in law school.

You must complete the requirements for the business prelaw major in conjunction with the requirements for one of the other business majors, which include accounting, business economics, finance, general business, human resource management, management, management information systems, marketing, and operations. In addition to following the requirements of one of the other majors in the College of Business, you must complete 16 hours at the 300-400 level, including BUSL 356 and four additional hours in business law beyond 356, with the approval of your advisor. Another eight hours should be selected from the following: ACCT 317 Federal Income Taxes, ECON 430 Public Finance, GEOG 357 Environmental Law, HRM 425 Labor Relations, POLS 401 and 402 Constitutional Law, POLS 409 Law Enforcement, POLS 304 State Politics, POLS 374 Great Jurists, POLS 413 Administrative Law, FIN 331 Insurance, and FIN 341 Investments. (You may request from your advisor written permission to substitute a course different from those listed above.) With your advisor's approval, you should elect additional courses in nonbusiness fields, especially American government, American and English history, English, philosophy, interpersonal communication, and in such business fields as finance.

**The law faculty in the College of Business is prepared to assist prelaw students in a number of ways:**

- 1 Several faculty members give extensive time to counseling students regarding selection of courses, the Law School Admission Test (LSAT), law school application procedures, and other matters of importance to prelegal education.

- 2 LSAT and Law School Data Assembly Service (LSDAS) information is available from the prelaw advisor.
- 3 The department maintains ties with the Criminal Justice Program administered by University College.
- 4 The department maintains ties with faculty and staff at various law schools in the country.

## Finance Major

### Major code BB6125

The finance major prepares students for the dynamic environment of corporate finance and financial services. Coursework is available in the fields of financial management (both national and international), commercial banking, financial institutions, security markets, and risk and insurance.

Upon graduation, finance majors typically obtain entry-level positions in such areas as banking, insurance, government services, or in an array of industries that employ financial analysts, decision makers, financial strategists, budgeting officers, and planners.

In addition to the B.B.A. core requirements, finance majors must complete 24 hours of finance courses at the 300 and 400 level, including FIN 327, 341, and 461.

**Note:** Finance majors are advised to take the courses in the "Introduction to Business Systems" cluster on a stand-alone basis. This requires that the "Business Context Cluster" be taken in the fully integrated format.

## General Business Major

### Major code BB6122

The general business major prepares professionals on a broad basis for business careers. Five upper-level courses are required from the following areas: accounting, quantitative business analysis, management, management information systems, business law, finance, marketing, operations, business administration, and economics (course selection restricted to ECON 303, 304, 320, 332, 360, or 430). Each course will be in a different functional area or discipline. This major is of special interest if you have a generalized view of business and do not possess strong interests in any one concentration.

Upon graduation, general business majors enter what may be the broadest area of positions of any major within the College of Business. Recent graduates have entered such fields as sales, banking, government services, personnel, advertising, small business entrepreneurship, production, and insurance.

## Human Resource Management Major

### Major code BB6130

The demand for human resource management professionals capable of operating as functionally trained strategic partners in organizations is growing rapidly.

The human resource management major provides an educational background for those with a career interest in human resource management. The major provides basic preparation for entry-level positions in human resource management and the educational background that supports career advancement in this area. It also prepares you for a variety of positions in which knowledge of human resource management is critical to success.

In addition to the B.B.A. requirements, you must complete HRM 324 Advanced Concepts in Human Resource Management (this is recommended for majors) or HRM 320 Compensation and HRIS, HRM 440 Training Development and Performance Management, HRM 450 Recruitment and Selection, HRM 460 Strategic HRM, and MGT 480 Managing Transformation and Organizational Change.

You are also required to complete one elective from the following: HRM 425 Employee Relations, HRM 455 International HRM, HRM 491 Employment Law (or any other HRM 491), MGT 350 Creativity and Innovation Management, MGT 490 Strategic Business Leadership.

HRM 460 may only be taken after successfully taking HRM 430, 440, and 450. Therefore, it is important to take HRM 324 in your sophomore year, or in the fall of your junior year.

HRM 324, 430, 440, 450, and 460 are offered only once a year. If you fail to take one of these courses during the year, you must wait to take it the following year. You must complete 430, 440, and 450 before taking HRM 460.

With the help of your advisor, you may select general electives relevant to your career preparation. A sample of recommended electives: ECON 320 Labor Economics, ECON 321 Labor Legislation, ISE 422 Seminar in Occupational Safety and Health, COMS 404 Principles and Techniques of Interviewing, PSY 101 General Psychology, PSY 241 Behavioral Measurement, and PSY 261 Industrial Psychology.

You may want to join the Ohio University student chapter of the Society for Human Resource Management (SHRM), the professional association for human resource management practitioners. The student chapter regularly brings in human resource managers as speakers; plans field trips; works closely with the sponsoring professional chapter, Lancaster Area SHRM; and provides many opportunities for you to get involved in human resource management activities.

## International Business Major

### Major code BB6132

In today's global economy, all businesses—whether large or small—are affected by international competitors and global events. Success in the global marketplace will depend on the capabilities of managers to understand the structures and processes that underlie international business. The international business major is designed to provide this understanding and to develop the requisite competencies of global business leaders. Students will be required to complete a minimum of 25 credit hours at the 300 and 400 level beyond the minimum requirements for the College of Business. The international business major must be completed in conjunction with at least one other major in the College excluding the business pre-law and general business majors.

The major requires all students to complete the following courses for a total of 13 credits:

Business Administration 385: Multinational Business Management 434: International Comparative Management Management 485 (1 credit): International Business Experience Marketing 441: International Marketing

The required course Management 485 ensures that all students complete a credible international experience as a platform for understanding business practices in an



international context. The experience must be approved and assessed by a faculty qualified in international business. The experience must be approved and assessed by a faculty qualified in international business. The experience will be reflected in a summary paper that describes what was learned and the significance of the experience to the student's future career. Typically the experience would involve travel to an international assignment for the purpose of developing an understanding and appreciation of international business in context. A CR must be achieved to graduate with the international business major.

In addition to the above course requirements, students are required to select a minimum of three courses from the approved electives list with the restriction that at least one course be in finance or economics. These courses include Economics 340, 341, 342; Finance 455; Management 486; Geography 321; Business Law 385; Political Science 456; Interpersonal Communications 410; and any 491 seminar course with an international emphasis which is approved by your advisor.

It is strongly recommended that students achieve proficiency in a foreign language, which normally means a minimum of 12 credit hours of instruction.

## Management and Strategic Leadership Major

### Major code BB6126

Today's dynamic and highly competitive businesses require energetic and capable leaders who can add value and create high performance at all levels of enterprise responsibility. The major in Management and Strategic Leadership is designed to create the foundations of knowledge and personal capability requisite to life-long professional learning and career-long success in business leadership.

Success in strategic business leadership requires a broad base of conceptual knowledge, personal skills and competencies, and technological literacy. The required courses ensure a variety of rich developmental experiences that can include community service learning, individual leadership and emotional intelligence assessments, case analyses, research projects, team-based active learning projects, and guest speakers, in addition to traditional classroom lectures and discussions. The major places a strong emphasis on written and oral communications skills, teamwork, and personal initiative. Extensive readings, research activities, and short and long writing assignments are used to integrate learning and enhance the professional experience.

The following course requirements for the major address with rigor and a strong commitment to practical application the foundations of leadership in the business context—conceptual knowledge, personal skills and competencies, and technological literacy. The major in Management and Strategic Leadership requires six courses and 21 hours of study

MGT 340	Organizational Behavior— Micro Perspective	4
MGT 350	Creativity and Innovation in Organizations	4
MGT 480	Business Organizations— Change and Development	4
MGT 490	Strategic Business Leadership	4
MGT 499	Strategic Business Leadership Portfolio	1

MGT Elective  
To be selected with approval  
of the advisor from any 300-level  
or 400-level MGT

4

Students who would like to include a substantial portion of the Management and Strategic Leadership Major as a component in another program of study from within or outside the College of Business are encouraged to do so. Participation in this capacity requires that the prerequisite course, MGT 240 Management, be completed with a grade of C or better. It is strongly encouraged that such participation include the four core courses of MGT 340, 350, 480, 490.

Majors in Management and Strategic Leadership within the Department of Management Systems will be required to successfully defend their personal Strategic Business Leadership Portfolios in order to graduate. This portfolio will be initiated in the prerequisite MGT 240 course and will be further developed in each of the required courses in the major. The portfolio will be reviewed annually with the student's major advisor. The final defense will be "Pass/Fail" and will be accomplished through participation in MGT 499, Strategic Business Leadership Portfolio.

Additional electives from course offerings in management within the Department of Management Systems are also available for those wishing to pursue further study. Students should also check the Department of Management Systems web site at <http://www.cob.ohiou.edu/~MGTSys/> to learn about available courses and any modifications in the major.

## Management Information Systems Major

### Major code BB6137

The management information systems (MIS) major is unique in its emphasis on applying computers to build information systems for business applications; the approach is applications oriented rather than technical. MIS majors are trained to assist with the rapidly progressing computerization of managerial functions and can expect to become expert managerial computer users or intermediaries between users and computer centers.

The hands-on emphasis of the program exposes you to a number of hardware and software solutions to common business problems. This training is designed to produce graduates who can quickly master computer technology so they will be able to adapt quickly to new technology and apply it to business problems as the software and hardware evolve. Being able to communicate with both management and computer specialists makes MIS graduates ideal candidates in organizations that make use of information systems and consulting companies.

In addition to the B.B.A. core curriculum, you must complete MIS 220, 320, 325, 380, 400, 420, and 485. One additional course must be completed from MIS 460, 430, 455, 480, or 491. Elective courses include MIS 230 and 235.

## Marketing Major

### Major code BB6127

Marketing is the lifeline of any organization. It links the organization with its customers and is vital not only to the survival of the organization but also to the maintenance of the free enterprise system. The marketing curriculum is designed to give you both broad knowledge and an opportunity to specialize. It prepares you to become a

marketing professional through coursework in personal selling and sales management, marketing research and consumer behavior, and marketing analysis and management (national and international).

Upon graduation, marketing majors typically obtain direct-entry positions in such areas as sales, retail management, product/brand management, market research, and marketing logistics with companies that specialize in offering products/services to consumers or other businesses.

In addition to the College of Business core requirements, you must complete 25 hours of marketing courses at the 300–400 level including MKT 358, MKT 379, MKT 444, and MKT 463.

## Business Minor

### Minor code ORBSAD

The business minor is open to any student enrolled outside the College of Business. Be advised that some courses require prerequisites.

#### Required courses

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4

#### One of the following six courses:

ECON 381	Intro to Economic Statistics and Econometrics	4
GEOG 271	Intro to Statistics in Geography	5
COMS 301	Empirical Research Applications in Comm.	4
MATH 251	Intro to Prob and Stats II	4
PSY 221	Statistics for the Beh. Sci.	5
QBA 201	Intro to Bus. Statistics	4

#### All of the following four courses:

FIN 310	Managerial Finance	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 300	Principles of Operations	4

Total hours: 32

Due to accreditation standards, students outside the college are allowed to complete only 44 hours of courses in the business curriculum.

## The Sales Certificate

The College of Business through The Sales Centre at Ohio University sponsors the undergraduate Sales Certificate for students in any major who seek understanding about professional selling and development. There are currently two options in the Sales Certificate program, the sales Certificate with a Professional Focus and the Sales Certificate with a Retail Focus. Completion of a Sales Certificate program, which is the equivalent of a minor, results in the certificate and is officially recognized on transcripts upon graduation. Several certificate courses satisfy both tier and College of Business requirements. Be advised that some courses require prerequisites.

For admission into The Sales Certificate Program, submit to the Sales Centre, Copeland 609, the following: 1) a completed application form; 2) a copy of your most recent DARS (Degree Audit Reporting System) result indicating an overall g.p.a. of at least 2.75; 3) your resume demonstrating characteristics that support a successful sales career. In addition you must have a panel interview with Sales Centre faculty and at least one representative from the Professional Sales Advisory Board of The Sales Centre. Application forms

may be obtained from any college's undergraduate office.

Admission to this program is competitive and not guaranteed to all who meet the admission criteria. Students with the highest probability of success will be admitted up to the enrollment ceiling. Members of groups historically underrepresented in business will receive special consideration.

Each quarter those accepted into the Sales Certificate program will have their progress tracked by DARS. An overall g.p.a. of 2.5 in certificate courses is required. Students will need to consult the director of The Sales Centre before the deadline for graduation to ensure that the certificate will be awarded. For more information contact the director or associate director of The Sales Centre.

### The Sales Certificate with a Professional Focus

#### Required courses

MKT 358	Professional Selling	4
MKT 498	Sales Internship	4

#### Advanced Courses (must select two):

MKT 425	Business to Business Marketing	4
MKT 458	Advanced Topics in Sales (Sales Management)	4
MKT 491	Current Topics in Sales: Executive in Residence	4

#### Communication Requirement (must select one):

COMS 215	Argumentative Analysis and Advocacy	4
COMS 206	Communication in Interpersonal Relationships	4

In addition to the courses listed above, two cross-disciplinary courses (8 hours) are needed to fulfill the 28 hour requirement. The following courses are suggested\*:

ET 280	Engineering and Technology-Overview	4 (2A)
IT 110	Intro to Manufacturing	4 (2A)
PHIL 130	Intro to Ethics	4 (2H)
THAR 113	Acting Fundamentals I	4
THAR 170	The Theater Experience	4 (2H)

\*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the director of The Sales Centre.

Total hours: 28

### The Sales Certificate with a Retail Focus

#### Core Requirements

MKT 358	Professional Selling	4
HCRM 399B	Retail Sales Internship	4
MKT 458	Sales Management	4

#### Advanced Courses (must select one):

MKT 425	Business to Business Marketing	4
MKT 444	Consumer Behavior	4

#### Retail Merchandising Requirement:

HCRM 250	The Consumer in American Society	4
HCRM 423	Retail Merchandising: Promotional Strategies	4

#### Electives (must select one):

In addition to the courses listed above, one additional course (4 hours) is needed to fulfill the 28 hour requirement. The following courses are suggested\*:

COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 342	Communication and Persuasion	4
PHIL 130	Introduction to Ethics	4
THAR 113	Acting Fundamentals I	4
THAR 170	The Theater Experience	4

\*Other cross-disciplinary courses that support the certificate curriculum may be substituted with the approval of the director of The Sales Centre.

Total hours: 28

# College of Communication

Radio-Television Building 497

Kathy A. Krendl  
Dean

Eddith Dashiell  
Associate Dean

Florence Clark Riffe  
Assistant Dean

The College of Communication includes the J. Warren McClure School of Communication Systems Management, the School of Communication Studies (formerly the School of Interpersonal Communication), the E. W. Scripps School of Journalism, the School of Telecommunications, and the School of Visual Communication.

The College was created to meet the communication needs of a changing society. New forms of communication, the growth of communication systems, and the need for better communication among people, races, economic groups, and nations were factors in Ohio University's decision to prepare graduates both for traditional roles and for a variety of new opportunities.

The College is equipped to train graduates for careers and post-baccalaureate study in journalism, telecommunications, voice and data communication, visual communication, and organizational and interpersonal communication. The College operates on the assumption that professional competency in these areas calls for the highest proficiency in the field of specialization, plus the broadest liberal education in other disciplines.

The E. W. Scripps School of Journalism is fully accredited, with undergraduate sequences in advertising, broadcast news, news writing and editing, magazine journalism, public relations, and online journalism.

The journalism school is recognized nationally and by the Ohio Board of Regents for the quality of its more than 200 annual graduates who move into careers on leading newspapers, magazines, and news-gathering organizations, as well as into advertising and public relations positions. Careers and graduate study take them to all parts of the world.

The School of Telecommunications is one of the largest broadcasting and electronic media programs in the United States, and national surveys have ranked it as one of the best in the country. It has received Program Excellence and Academic Challenge awards from the Ohio Board of Regents in recognition of the quality of its instruction.

The telecommunications program provides a broad-based education that prepares students for a range of careers in the electronic media. Many opportunities are provided for hands-on experience on campus, including a campus radio station, a video production unit, and public broadcasting stations WOUB AM-FM-TV. A year-round internship program provides opportunities for qualified advanced students to obtain professional experience outside the University.

The School of Interpersonal Communication offers a liberal education, emphasizing the scientific

and artistic basis of communication. It is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory in specific contexts. Students choose areas of concentration and specific courses that lead to professional and preprofessional competence in such fields as training and human resources, law, politics and government, health advocacy, campaign implementation, and survey research.

Students majoring in communication studies must choose one area of concentration from among health communication, organizational communication, or communication and public advocacy.

The School of Visual Communication prepares students for careers in informational graphics/publication design, interactive multimedia, photojournalism, and commercial photography. Students graduating from the program are qualified to pursue careers in newspapers, magazines, corporate communications, web design, advertising photography, and new media production.

The J. Warren McClure School of Communication Systems Management is a unique program that educates students about the design, management, and uses of advanced communication technologies. The only program of its kind in Ohio, and one of very few in the nation, the school offers a four-year baccalaureate program leading to a degree in communication systems management. Coursework centers on the business applications of voice and data networks and services. The

interdisciplinary approach, a highly successful paid internship program, and substantial hands-on laboratory experience prepare students for careers managing business communication networks, as well as with major telephone companies, consulting firms, and government agencies.

All programs of study at the undergraduate level lead to the bachelor's degree. More detailed descriptions and the requirements for the various majors offered in the schools are given in the pages immediately following.

Graduate programs in all five schools are described in detail in the *Graduate Catalog*.

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### Admission Requirements

Freshman admission to the College of Communication's J. Warren McClure School of Communication Systems Management, School of Communication Studies, E. W. Scripps School of Journalism, School of Telecommunications, and School of Visual Communication is based on high school class rank, test scores, and professional activities, as well as availability of openings.

You may receive additional consideration if you have demonstrated talent or experience, or if you come from a historically underrepresented group. For information on admission procedures, contact the school director.

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### Transfer Policy

In general, all students **currently enrolled at Ohio University** who wish to transfer into the College must have earned at least 48 quarter hours (32 semester hours) with a g.p.a. of at least 2.5. However, some schools in the College of Communication have a higher g.p.a. standard. Students **not enrolled at Ohio University** must abide by policies in this catalog under the heading "Undergraduate Admissions: Transfer Applicant." Applicants may receive additional consideration if they have demonstrated talent or experience, or if they come from a historically underrepresented group.

The Schools of Communication System Management and Visual Communication follow the rolling

transfer model, meaning students may apply to transfer at any time. However, University policy requires that processing the paperwork to change programs takes place only within the first 15 days of each quarter, regardless of the application date. The Schools of Communication Studies, Journalism, and Telecommunications have application deadlines (October 1 and March 1) and different rules for applying. See each school's section for details.

Students transferring into one of the schools within the College of Communication will be required to complete the major requirements in effect during the academic year of the approved transfer.

#### This regulation applies to:

Students transferring from other universities.

Students transferring from other colleges within Ohio University.

Students transferring from one school to another within the College of Communication.

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### Degrees and Requirements

The College of Communication offers curricula leading to the degrees of Bachelor of Science in Communication (interpersonal communication, telecommunications, communication systems management), Bachelor of Science in Journalism, and Bachelor of Science in Visual Communication.

As a candidate for a degree in the College of Communication, you must satisfy the requirements established by the program in which you are enrolled. Additionally, you are required to meet the General Education Requirements that have been established by Ohio University. Most University general education courses can satisfy both program and University requirements. Consult your advisor on the dual application of those courses.

You must also have a minimum total of 192 earned hours with a 2.0 accumulative grade-point average (g.p.a.) and a 2.0 g.p.a. in your major. When courses are retaken, only the final hours and grades earned count toward graduation.

After transferring into the College of Communication, you must complete a minimum of 48 credit hours as a resident of the school conferring the degree. In certain cases, exceptions may be made by the academic dean in consultation with the director of the school you plan to enter.

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### Advising

When you enter a school in the College of Communication, you are assigned an academic advisor on the basis of your interests. Your faculty advisor assists in the preparation of a schedule each quarter so that you select the proper sequence of courses in the major and appropriately related courses. However, you are responsible for seeing that all degree requirements are met (See also title page of this catalog).

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### Scholarships

Scholarships sponsored by each of the five schools within the College of Communication for qualified undergraduate students are available on an annual basis. For more information, contact the scholarship chair of each school, the assistant dean for undergraduate programs and services, or the College's Web site: <http://www.commcoll.ohiou.edu/>

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### Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

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### Global Learning Community

For information about the Global Learning Community, refer to "Global Learning Community Certificate Program" in the "University-Wide Academic Opportunities" section.

## Political Communication Certificate Program

The Colleges of Communication and Arts and Sciences jointly sponsor a certificate in political communication for students who wish to supplement their undergraduate majors with an inquiry into the arena of political communication. Political communication encompasses the interactions of political figures, political interests, the press, and the public in their efforts to persuade and influence political outcomes. The program is open to any undergraduate student in the University.

To receive a certificate in political communication, you must complete POCO 201 Introduction to Political Communication and POCO 401 Seminar in Political Communication, as well as 22 quarter hours from the courses listed below. No more than two courses from any one department can be counted toward the certificate.

A Political Communication Certificate is awarded upon completion of the requirements and graduation from the University. Notation of the award is recorded on your transcript. Consult the director of the Political Communication Program before the deadline for graduation to ensure that the certificate will be awarded.

### Required Courses

POCO 201	Intro to Political Comm.	3
POCO 401	Seminar in Political Comm.	5

### Courses in the Curriculum

ECON 430	Public Finance	4
COMS 260	Intro to Communication in Public Advocacy	4
COMS 300	Field Research Methods in Communication	4
COMS 342	Comm. and Persuasion	4
COMS 352	Political Rhetoric	4
COMS 430	Comm. and the Campaign	5
COMS 442	Responsibilities and Freedom of Speech	4
JOUR 233	Information Gathering	3
JOUR 370	Media Relations and Publicity	4
JOUR 464	Public Affairs Reporting	3
JOUR 471	Public Relations Principles	5
JOUR 472	Advanced Public Relations	4
LING 280	Language in America	5
PHIL 240	Social and Political Philosophy	4
POLS 250	International Relations	5
POLS 304	State Politics	4
POLS 406	Elections and Campaigns	4
POLS 410	Public Policy Analysis	4
POLS 415	The American Presidency	4
POLS 417	Legislative Processes	5
POLS 420	Women, Law, and Politics	4
POLS 499H	Women and Politics	4
PSY 304	Human Learning and Cognitive Processes	4
PSY 336	Social Psychology	4
SOE 210	Intro to Social Psychology	4
SOE 351	Elementary Research Techniques	4
SOE 414	Contemporary Social Movements	4
SOE 465	Social Change	4
TQOM 370	Mass Communication Theories	4
TQOM 453	Law and Regulation	5
TQOM 455	Media Messages for Social Change	4
TQOM 475	Politics and the Electronic Media	4

## School of Communication Studies

(formerly School of Interpersonal Communication)

**Greg Shepherd, Director**

**Anita C. James, Associate Director for Undergraduate Studies**

**Nagesh Rao, Associate Director for Graduate Studies**

The School of Communication Studies offers a liberal education, emphasizing the scientific and artistic basis of communication. It is firmly committed to providing quality instruction in the theoretical bases of human communication and the application of theory in specific contexts. Students choose areas of concentration leading to professional and preprofessional competence in such fields as training and human resources, law, politics and government, health advocacy, campaign implementation, and survey research.

After completing the core courses, students majoring in Communication Studies must choose one area of concentration from among health communication, organizational communication, or communication and public advocacy. Students complete a rigorous academic program consisting of courses in theory, research methods, presentation skills, and engaged learning practice. Elective courses in the School complement the required courses and expand the students' repertoire of competencies and skills. Enhancing study in the core and concentration are courses in a related area, another culture's language, and contemporary technology. All told, the major is designed to augment students' lives and careers through a clearer understanding of the effects of communication and messages in their professional and personal lives.

## Special Opportunities

### Internship Program

For students to have an opportunity to apply the theory of the classroom to the practical world of the workplace, the School of Communication Studies supports a carefully supervised internship program. During the academic year, about 30 majors serve as student interns in a wide variety of occupational settings. Many of these internships are identified and developed by the students. The period of an internship is usually 10 weeks, and 1 to 15 credits may be earned. To qualify for an internship, a student must be a major in Communication Studies and satisfy a series of school requirements. For more information regarding this program, contact the school's internship coordinator.

### Forensics Program

Through its forensics program, the School of Communication Studies provides the opportunity for all University students to meet outstanding undergraduates from 300 or more colleges or universities in intellectual competition. Approximately 20 tournaments at other schools and several held on campus enable a student to develop skills in debate, extemporaneous speaking, oratory, rhetorical criticism, and oral interpretation. Excellence in scholarship and superior performance in speech communication are rewarded in several ways. Delta Sigma Rho-Tau Kappa Alpha national

honorary is open to students in the upper third of their class who excel in forensics. The Lorin C. Staats Award is given to the outstanding senior who has participated with distinction in several forensic areas. The outstanding junior or senior in debate receives the Francis McVicker Maxwell Award. A student need not be a Communication Studies major to participate in the forensics program. For more information regarding Ohio University forensics, contact the director of the forensics program.

### Preparation for Law School

The Association of American Law Schools states that the goals of prelegal education are: (1) comprehension and expression in words, (2) critical understanding of the human institutions and values with which the law deals, and (3) creative powers in thinking. Students in the School of Communication Studies who plan to enter law or paralegal school will find excellent opportunities for meeting these goals. In addition, all Ohio law schools require an undergraduate degree from an approved institution before admission.

A prelaw student in Communication Studies will be individually counseled and advised in developing a total course of study to meet the intellectual challenges of the legal profession. Suggested areas of study include communication theory and practice, argumentation, legal oratory and communication, English composition and literature, history, political science, business law, behavioral sciences, humanities, comparative arts, economics, and philosophy.

Prelaw students are encouraged to investigate the Communication and Public Advocacy concentration of the Communication Studies major.

## Transferring into the School of Communication Studies

The School of Communication Studies permits applications as follows:

- students in their first year at Ohio University must apply by March 1 for transfer the following Fall (September);
- students who have completed more than 48 hours must apply by October 1 for transfer the following Winter (January) or March 1 for transfer the following Spring (April);
- students must have a minimum cumulative g.p.a. of 3.00 for consideration; applying with the minimum does not guarantee acceptance;
- students must apply online using the form available one month prior to the deadline at the School web site, <http://www.coms.ohio.edu>;
- transfers from outside Ohio University must abide by the policies spelled out in the "Undergraduate Admissions" page at the beginning of this catalog.

University policy requires the processing the paperwork to change programs takes place only within the first 15 days of each quarter, regardless of the application date.

## Degree Requirements

In addition to the General Education requirements and the 192 total hours specified by the University, all majors in the School of Communication Studies must complete (1) seven core courses, (2) two theory courses in one of the three concentrations, (3) one course in research methods, (4) one concentration-specific internship or practicum, (5) one course in advanced presentations, (6) three elective courses in the School, (7) a minimum of 28 hours in a related area approved by a faculty advisor, (8) three quarters of a foreign language or equivalent, and (9) two courses in contemporary technology. Only one approved course in the major can be applied toward the University's Tier II requirements.

### Core Courses

All majors in the School of Communication Studies must complete a 28-hour sequence of seven courses comprising a common core of knowledge. This requirement provides all majors with a foundation upon which the area of concentration is built. A grade of C or better is required in each course in the core. The seven core courses are:

COMS 103	Public Speaking	4
COMS 110	Communication Between Cultures	4
COMS 205	Techniques of Group Discussion	4
COMS 206	Communication in Interpersonal Relationships	4
COMS 215	Argumentative Analysis and Advocacy	4
COMS 235	Introduction to Communication Theory	4
COMS 450	Capstone Seminar in Communication	4

### Summary

Core courses	28
Concentration courses	32
Related Area courses	28
Foreign language	12
Technology	8
<b>total</b>	<b>108 hours</b>

### Concentrations in the Major

The major in Communication Studies provides students with the best features of a liberal arts and a professional education. The core courses, in combination with the University's General Education requirements, provide students with opportunities to develop competencies through examining the role played by communication in various contexts. The concentration is the means through which students develop a specialization, while exploring the broad spectrum of human communication. The concentrations provide a focus to the major but are not intended to be career specific. Each concentration provides skills and competencies applicable to a variety of potential careers under the broader headings of health communication, organizational communication, and communication and public advocacy. Majors are expected to complete the requirements of at least one of the following three concentrations.

**Health Communication****Major code BC5358**

Health communication professionals and the organizations in which they work are concerned with meeting people's communication and knowledge needs in such areas as the relationships between patients and their health care providers, family dynamics, dissemination of health information, and cultural and gender influences on communication. Recent graduates are employed in large health care companies, national nonprofit health agencies, and research institutions. Some alumni are pursuing graduate degrees.

**1. Theory Courses (2 courses)**

COMS 240	Health Communication (required)	4
COMS 310 or COMS 320	Information Diffusion Women and Health Communication	4

**2. Research Methods Course (1 course)**

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Communication	4
COMS 303	Rhetorical Analysis and Criticism	4

**3. Internship or Practicum (1 course)**

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496A	Health Communication Internship	4

**4. Advanced Presentations Course (1 course)**

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

**5. Elective Courses (3 courses)**

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 245	Introduction to Organizational Communication	4
COMS 260	Introduction to Communication in Public Advocacy	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4
COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4
	<b>total</b>	<b>32</b>

**Organizational Communication****Major code BC5342**

Students focused on organizational communication are preparing for professional careers in business, education, government, industry, or the nonprofit sector. The skills and competencies acquired through this concentration enable students to understand the dynamics of, and function more effectively in, organizational structures. Recent graduates are employed in major consulting firms, national financial service providers, conference planning companies, and information management organizations. Former organizational communication students are now also pursuing graduate studies.

**1. Theory Courses (2 courses)**

COMS 245	Introduction to Organizational Communication	4
COMS 345	Advanced Organizational Communication	4

**2. Research Methods Courses (1 course)**

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Comm.	4
COMS 303	Rhetorical Analysis and Criticism	4

**3. Internship or Practicum (1 course)**

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496B	Organizational Communication Internship	4

**4. Advanced Presentations Course (1 course)**

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

**5. Elective Courses (3 courses)**

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 240	Introduction to Health Communication	4
COMS 260	Introduction to Communication in Public Advocacy	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4
COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4

**Communication and Public Advocacy****Major code BC5357**

Students in this concentration experience an integration of political and legal communication theory and practice. The courses emphasize the role of communication in argument, debate, and politics, including the ethical and rhetorical implications of constitutional guarantees of political, social, and religious speech and persuasive strategies characteristic of contemporary political communication. Recent graduates are attending law school, working in state legislative roles, managing political campaigns, and attending graduate school.

**1. Theory Courses (2 courses)**

COMS 260	Introduction to Communication in Public Advocacy	4
COMS 352	Political Rhetoric	4

**2. Research Methods Courses (1 course)**

COMS 300	Field Research Methods in Communication	4
COMS 301	Empirical Research Applications in Comm.	4
COMS 303	Rhetorical Analysis and Criticism	4

**3. Internship or Practicum (1 course)**

COMS 430	Communication and the Campaign	4
COMS 445	Senior Practicum	4
COMS 496C	Communication and Public Advocacy Internship	4

**4. Advanced Presentations Course (1 course)**

COMS 315	Advanced Argument and Debate	4
COMS 403	Advanced Presentations	4
COMS 421	Instructional Training and Development in Communication	4

**5. Elective Courses (3 courses)**

COMS 217	Advanced Forensics	4
COMS 220	Oral Interpretation of Literature	4
COMS 240	Introduction to Health Communication	4
COMS 245	Introduction to Organizational Communication	4
COMS 304	Principles and Techniques of Interviewing	4
COMS 306	Interpersonal Conflict Management	4
COMS 342	Communication and Persuasion	4
COMS 351	Courtroom Rhetoric	4
COMS 353	Contemporary Culture and Rhetoric	4
COMS 405	Meeting and Conference Planning	4
COMS 406	Advanced Interpersonal Communication	4
COMS 410	Cross-Cultural Communication	4
COMS 411	Communicating with People with Disabilities	4
COMS 420	Gender and Communication	4
COMS 422	Communication in the Family	4
COMS 442	Responsibility and Freedom of Speech in Communication	4
COMS 448	Rhetoric and Electronic Media	4
COMS 480	Topics in Communication	4

**Related Area Requirement**

In addition to core courses and concentration requirements, all majors must complete a minimum of 28 hours in a related area. The related area is intended to complement and supplement the work of the concentration so as to increase the marketability of the student. Related areas should be selected early, but not until the concentration is identified. The related area must be approved by the student's faculty advisor. Each student must submit a Declaration of Related Area to the College of Communication office. The form is obtained from the student's faculty advisor and must be signed by the advisor.

The courses comprising the related area can come from one department or school or from several, but all must be outside the School of Communication Studies. Collectively, the related area course work should constitute a unified body of knowledge having a definite relationship with the concentration. At least 16 of the hours should be courses at the 300- and 400- level. The requirement can also be met through the completion of a minor or certificate program.

**Language Requirement**

All COMS majors are required to complete 12 credit hours (one academic year) of a language other than their native language. Students may meet this requirement in three ways: first, complete at least three years of the same language in high school; second, take a language placement test and achieve a score sufficient for placement into at least the second year of language study; or third, complete three consecutive university courses in the same language.

**Technology Requirement**

Also beginning in the fall of 2003, all COMS students are required to complete two courses in technology. The list of acceptable courses is available from advisors in the School.

**Minor in Communication Studies****Minor code ORCOMS**

The minor in Communication Studies is available to students in all disciplines. A student declaring the minor will not be permitted to substitute courses for those listed below and, if non-listed COMS courses are taken, will not be permitted to register for credits beyond 28 hours, even if that means the minor cannot be completed.

**Required Courses (12 hours):**

101, 103, 235

**Elective Courses (16 hours):**

217, 220, 240, 245, 260, 304, 306, 310, 320, 342, 345, 351, 352, 353, 405, 410, 411, 420, 422, 442, 448, 480.

**24-hour Rule**

A student will be able to complete a maximum of 24 hours in the School of Communication Studies before either declaring a minor in COMS or undertaking a transfer request to become a major. No student will be permitted to complete more than 24 credit hours without becoming either a major or minor in the School.



# J. Warren McClure

## School of Communication Systems Management

**Andrew Snow, Director**

### Bachelor of Science In Communication (BSC) Communication Systems Management

#### Major code BC5329

Founded in the fall of 1980 as the Center for Communication Management, this program was the first of its type in Ohio and only the second in the United States at the baccalaureate level. It is a multidisciplinary major, with students taking courses in nine other schools and departments in addition to the J. Warren McClure School of Communication Systems Management. The program was designed with the assistance of the International Communications Association and other telecommunications professionals.

#### Purposes and Objectives

The purpose of the J. Warren McClure School of Communication Systems Management is to provide academic studies and research for the training of professionals in the field of voice/data telecommunications. These communication professionals fill a large number of roles: they design, supervise, and operate specialized communication systems for private industry and government; they design and market communication services on behalf of major telephone companies, Internet service providers, cellular providers, and equipment vendors; and they apply their expertise on behalf of consulting firms and regulatory agencies.

Until the 1970s, professionals in the field were trained primarily on the job. But with the rapid expansion of technology and its applications, universities were asked to provide quality educational programs in this field. The Ohio University program is the result of five years of consultation and planning with experts at both the academic and applied levels.

The program is based on the philosophy that the communication professional must have broad basic knowledge and skill in such diverse areas as technology, business, computer systems, and written and oral communication.

While working toward their degrees, students are encouraged to gain practical experience through lab exercises, case studies, internships, and practica. Students are given opportunities to observe and use communication systems (voice, image, and data) in the school's laboratories and through tours of the University's Communication Network Services installation and other facilities.

#### Transfer Students

The following policy applies to students wishing to transfer from other universities, from other colleges within Ohio University, or from other schools within the College of Communication:

You must meet the minimum college transfer requirements (completion of 48 quarter hours, or 32 semester hours, with

an earned g.p.a. of at least 2.5) to be eligible to apply for transfer into the School of Communication Systems Management. Meeting these requirements does not, however, insure acceptance into the school.

Students who do not qualify for priority admission will be considered for admission based on overall g.p.a., the g.p.a. in the four courses listed below, in addition to other factors.

There are two alternatives for priority admission into the program. One alternative is to complete ACCT 101/102, COMS 103, and ECON 103 and 104 (or their equivalents) and have a cumulative g.p.a. or 3.0 or higher. The second alternative is to have an overall g.p.a. of 2.75 and 3.0 g.p.a. in the four courses listed above.

You are required to meet with the school's director before applying for transfer.

In order to apply for transfer, you must complete a Transfer Information Sheet (available in the school office) and supply your latest DARS report or transcript.

You may apply for a transfer at any time, but admission decisions for students who are not automatically admitted will be made only once per quarter, by a faculty committee.

Enrollment in the school is limited to ensure quality instruction and advising. Other transfer procedures may be adopted if enrollment should become a problem.

#### Internships and Practica

Hands-on experience is an important part of your course of study, and you are strongly encouraged to fulfill this component of your studies through an internship or practicum. Course credit for either an internship or a practicum applies toward the 45 hours of COMT courses required of all majors. Credit toward the 45 hours is not awarded for both an internship and a practicum.

The school has a strong internship program with more than 30 sponsoring organizations. Internships are usually 12 weeks long and take place off campus during the summer; other arrangements are possible. You are treated as a staff member and are paid for your efforts. Internships are awarded on a competitive basis and are subject to availability. You must be majoring in the program, have completed at least 90 hours, including specified courses in the program (see the director for a list), and have one quarter remaining on campus after the internship is completed. Individual internship sponsors establish g.p.a. requirements. You must enroll in the University for academic credit during the internship and may earn up to 12 hours of course credit for completion of all internship requirements; a maximum of 5 hours of course credit will apply to the 45-hour major requirement. Apply to the internship coordinator for consideration.

The school also provides practicum experience. You may choose to complete a practicum project under the supervision of a school faculty member. Practica are conducted on campus, either within the school or for other units, and are unpaid. You must enroll in the University for academic credit during the quarter in which the practicum is conducted. A maximum of 5 hours of course credit will apply to the 45-hour major requirement. Practica are arranged with individual faculty members.

If you are unable to complete either an internship or a practicum, you may complete the 45-hour major requirement through an additional COMT elective course.

### Curricula and Requirements

A communication professional is asked to have reasonable familiarity with a number of concerns, both general and technical. The communication management major requires a multidisciplinary approach involving courses in other participating schools and departments, in addition to coursework offered by the school itself.

All majors in the program must earn a grade of C (2.0) or better in COMT 214, COMT 220, COMT 222, and COMT 302. If you earn a grade below C in any of these courses, you will not be permitted to enroll in upper-division COMT courses. Courses may be retaken according to University policy.

Additionally, to remain active in the major, you must maintain a 2.0 average in all required courses, not solely those labeled as communication management courses.

You are required to complete a secondary area of concentration. These areas traditionally have been in management/ business administration, computer science, or technical areas. Other areas are possible as well. You develop your specific secondary area of concentration with your advisor's approval after completing COMT 214. Further information is available from the school office.

Each major must complete the core courses, focus area requirements, and other University requirements.

Requirements are structured to meet simultaneously the University's General Education Requirements and the needs of the major field.

### Core Courses

#### 1. General

ECON 103, 104	Principles	8
	Freshman Tier I English	5
	Tier I mathematics	4-5
ENG 305J	Technical writing	4
	Statistics	4-5
	Other Tier requirements	

#### 2. Technical and Business

ACCT 101, 102	Accounting	8
BUSL 255	Law and Society	4
C5 120	Comp. Literacy	3
MGT 202	Management	4
MKT 202	Marketing Principles	4
	One computer language	5

#### 3. General Communication

COM5 101, 103, 215	12
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#### 4. Communication Systems Management

COMT 214, 220, 222, 302, 304, 310, 312, 444, and 14 hours of additional COMT courses (including up to 5 hours of COMT 401 or 495 but excluding COMT 431 and 493) 45

#### 5 Secondary area of concentration 20-25

Specific courses dependent upon area of concentration

#### 6 Electives

As recommended by advisor

## E. W. Scripps School of Journalism

**Thomas Hodson, Director**

**Anne Cooper-Chen, Associate Director**

**Jan Slater, Associate Director**

### Bachelor of Science in Journalism

Ohio University's E. W. Scripps School of Journalism is accredited by the Accrediting Council on Education in Journalism and Mass Communication. It is one of a limited number of accredited schools and departments of journalism in the United States.

#### Mission Statement

The E. W. Scripps School of Journalism is dedicated to the needs of its students; to excellence in teaching, advising, service, and research; and to leadership in journalism education. The school stresses the need for a liberal arts foundation combined with a professional education and practical experience for its students. The goals are to search for truth; to develop critical analysis, thinking, writing, and speaking abilities; to enhance free, responsible, and effective expression of ideas.

To that end, the E. W. Scripps School of Journalism:

- stresses the importance of the First Amendment;
- fosters the highest standards of journalism ethics;
- prepares students to enter the journalism professions;
- provides a liaison between students and professionals;
- involves students and faculty in an extended University;
- values an international presence and perspective;
- attracts, nurtures, and retains a diverse group of outstanding students;
- expands scholarly activity to enhance the body of knowledge within journalism;
- supports a diverse faculty offering an array of contributions;
- offers an environment that equips students to live in a diverse world; and
- upholds the University mission of commitment to educational excellence through focus on the individual student.

#### The School

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be educated culturally and trained professionally. Blending the liberal arts with professional courses, Ohio University journalism students take approximately three-fourths of their courses outside the professional school.

Six sequences are offered, all leading to the Bachelor of Science in Journalism degree: advertising, magazine journalism, news writing and editing, public relations, broadcast news, and online journalism.

While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in being news writers, reporters, and anchors should enroll in the E. W. Scripps School of Journalism, and students interested in studio and field production should enroll in the School of Telecommunications.

### Media Practice

A basic philosophy of the E. W. Scripps School of Journalism is that students should get media experience while working toward their degrees. Experience is available on a laboratory magazine, *Southeast Ohio*; on a community Web site, *Athensi.com*; and on a daily laboratory news broadcast, *Athens MidDay*. Information gathering, graphics, and advertising laboratories also offer practical experience.

Many students add to their experience by writing for and editing *The Post*, the independent daily campus newspaper; the *Athena*, the University yearbook; or *The Ohio Journalist*, the school's alumni publication. Some also serve on the staffs of local newspapers. Work might include gathering and writing news and features; editing local and wire copy; writing headlines; and preparing layouts.

In broadcast news, students can get practical experience preparing and broadcasting news over WOUB AM, FM, and TV, the University's radio and television stations, and over the local cable television system.

Online journalism opportunities are available for students through virtually any department or agency on campus or in the community, since most have active Web sites.

Advertising and public relations students gain practical experience through internships with agencies, corporations, hospitals, charitable groups, newspapers, magazines, and broadcast stations. Students serve in public relations capacities with University and community organizations.

With increased media use of computers and the Internet, many employers are seeking graduates who can write and design materials for the World Wide Web. The E.W. Scripps School of Journalism provides courses in Web page design and reporting to help students develop the skills necessary for Internet-based journalism careers.

### Internship Program

Consistent with its policy of combining classwork with practical training, the E. W. Scripps School of Journalism offers an internship program to qualified students. Many of these internships are developed by students. The period of internship typically is 10 weeks. Interns are provided with as varied hands-on experience in media-related organizations as possible and may be paid. Internship opportunities are located throughout the nation and abroad.

### Admission Requirements

The E. W. Scripps School of Journalism admits only the best academically and professionally qualified freshmen who normally rank in the top 15 percent of their high school class and meet minimum standardized test score requirements. Students with a lower class ranking will be considered if they have outstanding SAT or ACT scores. Students demonstrating notable talent or experience and members of historically underrepresented groups will be given special consideration.

### Transfer Students

The following policy has been established by the E. W.

Scripps School of Journalism as a means of selecting the best qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment at a number that may be effectively served by our faculty. The school is dedicated to top-quality instruction, and this policy is one means through which that goal is achieved.

- 1 Approximately 40 transfer students will be accepted annually into the E. W. Scripps School of Journalism.
- 2 Transfer students from within or outside Ohio University will be considered only when they have at least 48 quarter hours (32 semester hours) with a minimum 3.0 g.p.a.
- 3 In addition to grades, consideration will be given to journalism grades, journalism experience or background in a program offered by the school (professional or college), test scores, letters of recommendation, personal statements of intent, and work samples.
- 4 You must apply for transfer using the school's Application for Transfer form which is available on the school's website <http://scrippsjschool.org/>
- 5 Official transcripts, letters, and other supporting documents must be attached to the Application for Transfer at the time of its submission.
- 6 Transfer applications are accepted twice during the academic year – no later than October 1 for transfer in Winter quarter and March 1 for transfer in Fall quarter. Application for transfer can be made only once per academic year. Applications must be received by the above dates. Late applications will not be considered.
- 7 A special faculty committee will conduct evaluations and recommendations. The school's Director and Associate Director will make final decisions.
- 8 If the transfer application is denied, there is a process of appeal. This will be explained at the time of notification of the initial denial for transfer. Provisional admittance may be granted under certain circumstances.

### Curricula and Requirements

The Accrediting Council on Education in Journalism and Mass Communication includes among its accrediting standards the following provision: generally, three-fourths of the student's program should consist of courses in the liberal arts and sciences and one-fourth in professional courses in journalism.

Journalism students at Ohio University meet the above provision by fulfilling two sets of requirements: general, which are followed by all students, and specialized, which are chosen by the student with the guidance of an advisor.

### General Requirements

Political Science (2 qtrs)

Sociology and/or Anthropology (2 qtrs)

Economics (2 qtrs)

Psychology (1 qtr) (except PSY 120)

History (2 qtrs)

English (2 qtrs)

Statistics (1 qtr) (from approved school list)

Philosophy (2 qtrs) (one must be PHIL 120 or 320)

Foreign Language (3 qtrs basic sequence or 1 qtr advanced) or Natural Science (3 qtrs as approved by advisor)

Comparative Arts/Fine Arts (nonperformance courses) (2 qtrs) or African American and/or Women's Studies (2 qtrs)

Speech (1 qtr) COMS 103

**Specialization Area**

The specialization area must be approved by an advisor. Students may choose one of four options:

- 1 A minimum of 36 hours in a single department within the College of Arts and Sciences (usually structured in accordance with the major requirements of the selected department).
- 2 A minimum of 18 approved hours in each of two departments in Arts and Sciences.
- 3 A minimum of 18 approved hours in one Arts and Sciences department and 18 advisor-approved hours in any other series of related courses.
- 4 A minimum of 20 approved hours in one Arts and Sciences department and 16 advisor-approved hours in any other series of related courses.

Any courses defined as professional cannot be used as specialization courses.

Additional nonjournalism courses are required in some sequences. No course may be counted in more than one type of requirement. For example, a course used to meet a general requirement may not be applied to a sequence or specialization area requirement as well.

**Hours Requirement**

To assure the liberal emphasis of the overall program, the nonprofessional content of the B.S.J. must be a minimum of 128 quarter hours of the 192 required for the degree. Minimum professional hours required is 45 quarter hours. Professional hours are defined as credits in journalism, visual communication, telecommunication, or photography. Nonjournalism courses required in sequences may be counted as nonprofessional hours.

**Standards**

- 1 To qualify for admission to JOUR 231, you must achieve at least 25 words per minute on a typing examination. This exam is administered on the first day of the JOUR 231 class.
- 2 To remain active in the B.S.J. program, you must earn at least a C in all core courses.
- 3 No course may be retaken more than twice.

**Journalism Sequences**

All journalism majors complete a basic 22-hour core of six courses. A grade of C or better is required in all core courses. Precision Language may be waived in some instances.

JOUR 133 or 133A	Precision Language	4
JOUR 221	Graphics	5
JOUR 231 or 231A	News Writing	4
JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
JOUR 412	Ethics, Mass Media & Soc.	3

JOUR 105 Introduction to Mass Communication, a freshman course, is optional and not a required course for journalism majors.

Additional requirements for the various sequences are as follows:

**Advertising Management****Major code BJ6932**

JOUR 250	Advertising Principles	4
JOUR 340	Advertising Strategies	4
JOUR 375	Advert. Media Planning and Buying	4
JOUR 450	Advert. Copy Writing	3
JOUR 482	Advertising Management	4

JOUR 486	Advertising Campaigns	5
MKT 202	Marketing Principles	4

Advisor-approved internship required.

**Recommended electives:**

JOUR 321	Print Advertising and Layout	4
JOUR 476	Advertising Research	4
JOUR 475	Adv. Advertising, Media Planning and Buying	4
JOUR 477	Promotional Media	4

**Broadcast News****Major code BJ6936**

JOUR 350	Radio Broadcast News	4
JOUR 352	TV Broadcast News	4
JOUR 353	Broadcast News Prac. or approved internship	2
JOUR 452	Broadcast News Producing	4
JOUR 455	Seminar in Broadcast News	3
JOUR 458	TV News Practice	4
JOUR 459	Advanced TV News Practice	3
JOUR 464	Reporting Public Affairs	3

Journalism electives to make 45 or more hours

**Magazine Journalism****Major code BJ6933**

JOUR 430	Mag. Editing and Prod.	4
JOUR 431	Mag. Practice	3
JOUR 441	Mag. Feature Writing	4

**Select four advisor-approved electives; additional electives as desired. Recommended electives are:**

JOUR 311	History of Journalism	4
JOUR 314	Online J. Fundamentals	3
JOUR 331	Reporting Contemporary Issues	3
JOUR 333	News Editing	4
JOUR 363	Review and Criticism	3
JOUR 407	Electronic Publishing	4
JOUR 418	Web Editing	3
JOUR 431	Mag. Practice, second time	3
JOUR 432	Specialized Bus. Mags.	4
JOUR 435	Advanced Editing	3
JOUR 442	Adv. Feature Writing	3
JOUR 464	Reporting Public Affairs	3
JOUR 466	International Media	4
JOUR 467	Foreign Correspondence	4
JOUR 468	Column Writing	3
JOUR 479	Computer Assisted Reptg.	3

**News Writing and Editing****Major code BJ6934**

JOUR 311	Hist. of Am. Journalism	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 333	News Editing	4
JOUR 332 and JOUR 334	Reporting Practicum and Editing Practicum or approved internship	2
JOUR 464	Reporting Public Affairs	3

**Select two of the following:**

JOUR 350	Radio Broadcast News	4
JOUR 363	Review and Criticism	3
JOUR 441J	Mag. Feature Writing	4
JOUR 442	Adv. Mag. Feature Writing	3
JOUR 465	Editorial Page	3
JOUR 468	Column Writing	3
JOUR 470	Sportswriting	3

Journalism electives to make 45 or more hours

**Online Journalism****Major code BJ6909**

JOUR 314	Online J. Fundamentals	3
JOUR 333	News Editing	4
JOUR 415	Online J. Practice	3
JOUR 416	Online J. Seminar	3

Advisor-approved internship

**Select one of the following:**

JOUR 418	Web Editing	3
JOUR 419	Online Legal Issues	3
JOUR 479	Computer Assisted Rptg.	3
VICO 361	Intro Web Design	4

**Select two advisor-approved electives; additional electives as desired. Recommended electives are:**

JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
JOUR 331	Reporting Contemp. Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 407	Electronic Publishing	4
JOUR 430	Mag. Editing and Prod.	4
JOUR 435	Advanced Editing	3
JOUR 464	Reporting Public Affairs	3
JOUR 466	International Media	4
VICO 462	Adv. Web Design	4

**Public Relations****Major code BJ6935**

JOUR 270	Intro to Public Relations	3
JOUR 333	News Editing	4
JOUR 370	Media Relations and Publicity	4
JOUR 471	PR Principles	4
JOUR 472	Advanced PR	4

Advisor-approved internship

**Select three advisor-approved electives; additional electives as desired. Recommended electives are:**

JOUR 250	Advertising Principles	4
JOUR 314	Online J. Fundamentals	3
JOUR 321	Advertising Layout	4
JOUR 331	Reporting Contemp. Issues	3
JOUR 350	Radio Broadcast News	4
JOUR 407	Electronic Publishing	4
JOUR 418	Web Editing	3
JOUR 430	Mag. Editing and Prod.	4
JOUR 432	Specialized Bus. Mags.	4
JOUR 435	Advanced Editing	3
JOUR 441	Mag. Feature Writing	4
JOUR 442	Adv. Article Writing	3
JOUR 464	Reporting Public Affairs	3
JOUR 470	Sportswriting	3

**Carr Van Anda Program**

If you are a junior with a 3.0 cumulative g.p.a. in all work, you may elect a sequence making up your own program in journalism: the basic core of six courses plus your choice of journalism courses to equal 45 or more hours. The program must have the approval of your advisor and the director of the E. W. Scripps School of Journalism. Formal application is necessary.

# School of Telecommunications

**Karen Riggs, Director****Joseph Slade, Associate Director for Graduate Studies****Jeff Redefier, Associate Director for Undergraduate Studies**

The School of Telecommunications offers programs of study leading to bachelor's, master's, and doctoral degrees. The baccalaureate program is a professional degree program designed to prepare students for careers. First-year students are allowed direct entry into sequences in audio production, video production, media management, and media studies. While pursuing a telecommunications degree, students are also actively involved in the liberal arts curriculum found at Ohio University. Coursework in the Arts, Humanities, Social Sciences, Technology, and Communication Sciences are all part of this liberal arts foundation that is critical to the success of today's media professionals. While there is overlap between journalism and telecommunications in broadcast news career preparation, students interested in studio and field production should enroll in the School of Telecommunications, and those interested in news writing, reporting, and anchoring should enroll in the E. W. Scripps School of Journalism. The school also offers an Honors Tutorial Program to qualified students. (See the Honors Tutorial College section.)

The classroom and laboratory experiences of students are augmented by a variety of practical experiences, including work with the school's production unit—Athens Video Works, the All-Campus Radio Network, and the three University owned and operated stations: WOUB-AM, WOUB-FM, and WOUB-TV. Credit for such experiences is available.

The school maintains relationships with various professional organizations including the Ohio Association of Broadcasters, the Ohio Cable Telecommunication Association, the International Radio-Television Society, the National Association of Television Program Executives, the Society of Professional Audio Recording Services (SPARS), the Audio Engineering Society, and the National Association of Broadcasters.

Ohio University's Zanesville and Southern Campuses offer an associate's degree program in electronic media, including a sequence in broadcast engineering. This program offers a smaller, more intimate setting for the first two years of University coursework. For additional information, see "Electronic Media" in the Regional Higher Education section.

## Transfer Policy

Because the School of Telecommunications sets high academic standards and limits enrollment, students from other universities or other programs at Ohio University must show strong academic performance. A cumulative grade point average of 3.0 or above will be required for consideration.

Students in their first year at Ohio University wishing to transfer into the School of Telecommunications must apply by March 1 for transfer the following fall (September). Students who have completed more than 48 hours must apply by October 1 for transfer the following winter (January). In addition, transfers from outside Ohio University must abide by the policies indicated in the "Undergraduate Admissions" pages at the beginning of this catalog.

In some exceptional cases, a student may be considered with less than the required 3.0 g.p.a. In these cases, the prospective transfer students must submit the transfer application as well as supporting documents. These support materials should include 3 letters of recommendation (2 from university instructors, 1 from the professional community), a resume, and a portfolio of work.

**Students transferring into the school must be enrolled for a minimum of one academic year (three consecutive quarters) or their final 48 hours of earned credit in order to graduate from the program.**

Further information regarding transfer policy may be found at <http://www.tcomschool.ohiou.edu/UGRAD.htm>

All transfer applications should be delivered to the School of Telecommunications office (RTVC 202) to the attention of the Associate Director of Undergraduate Studies.

## Bachelor's Degree in Telecommunications

### General Requirements for All Majors

#### 1. Arts and humanities

Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses include Tier I freshman and junior composition with the balance of the hours chosen from art, art history, classical languages, comparative arts, dance, English, film, humanities, modern languages, music, philosophy, and theater.

#### 2. Social sciences

Twenty quarter hours, with at least eight hours of 300- to 400-level courses. Courses may be chosen from anthropology, classical archaeology, economics, history, international studies, management, marketing, political science, psychology, and sociology.

#### 3. Communication sciences

Twenty quarter hours, with at least eight hours of 300- to 400-level courses (or 200-level or above for language courses). Courses may be chosen from classical languages, computer science, communication systems management, hearing and speech sciences, communication studies, journalism, linguistics, modern languages, and visual communication.

#### 4. Mathematics and/or natural sciences

Tier I quantitative skills plus five quarter hours chosen from astronomy, biological sciences, chemistry, geology, mathematics, physical science, physics, physical geography, and environmental and plant biology.

University General Education Tier II, African American Studies, and University Professor courses can be used to fulfill general requirements. You must fulfill the Tier III requirement.

## 5. Telecommunications

The following core courses are required of all majors:

TCOM 100	A Mediated World	4
TCOM 110	Telecomm. Writing and Production Planning	4
TCOM 201	Media, Culture, and Technology I	4
TCOM 202	Media, Culture, and echnology II	4
TCOM 367 or TCOM 453	World Broadcasting Telecommunications Law and Regulations	4

### Sequence Requirements

Students entering the School of Telecommunications as fall quarter freshmen must successfully complete TCOM 100 and earn a "C" or better in TCOM 110, 201, and 202 before enrolling in telecommunications courses at or above the 300 level. Transfer students and advanced freshmen must complete only TCOM 110, 201, and 202, and earn a "C" or better in each course.

### Corollary

Each student in the School of Telecommunications is required to complete a corollary of coursework. These are courses outside telecommunications selected by you

and your advisor to enhance your area of interest. The corollary totals a minimum of 35 credit hours (20 at the 300-400 level), from no more than two areas. For instance, students in the video production sequence might choose courses from the School of Film, while students interested in politics and the media might find courses from the political science area useful.

**Of special note is the required minor in music for students pursuing the music production track in the audio sequence. The music minor will count toward part of the corollary in this track.** (Please see requirements for the music minor in College of Fine Arts section.)

### Audio Production Sequence

This plan of study is designed to provide majors with skills in various areas of audio production including commercial production, narrative and documentary, music recording, and sound for picture. Students must complete the Audio Production core and coursework from one of three tracks: Music Production, Media Production, or Audio Post Production.

#### Audio Production Core:

TCOM 220	Intro to Audio Production	4
TCOM 308	Technical Basis of Telecommunications	4

#### Music Production Track:

##### Major code BC5353

TCOM 315	Recording Industry Survey	4
TCOM 413	Commercial Music Recording and Production	4
TCOM 414	Advanced Projects in Music Production	4

#### Media Production Track:

##### Major code BC5352

TCOM 231	Short-form Media Script Writing	4
TCOM 313	Field Audio Production	4

#### Audio Post Production Track:

##### Major code BC5354

TCOM 240	Intro to Video Production	4
TCOM 415	Audio Post-production for Moving Image	4

One or more of the following courses:

TCOM 425	Digital Video Post-production	
TCOM 485Y	AVW Productions	
TCOM 497	Independent Production Projects	4
	Telecommunications electives with approval of advisor, including at least one four-hour non-production course	4
	Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300 to 400 level) Music Production track requires a Music minor.	35

### Management Sequence

#### Major code BC5312

This plan of study is designed to provide an understanding of the management process in media organizations and to develop managerial skills. It is designed for those who hope to work in sales, marketing, advertising, and mid-level management positions in electronic media organizations. Students must complete the Management core and a minimum of two courses from the Management electives list. The following are required:

#### Management Core:

TCOM 359	Audience Research	4
TCOM 360	Electronic Media Mgt.	4
TCOM 461	Electronic Media Financial Management	4

#### Management Electives:

2 courses at 300- to 400-level:

TCOM 355	Broadcast and Cable Programming	4
TCOM 362	Electronic Media Sales	4
TCOM 367	World Broadcasting	4
	Telecommunications electives with advisor approval	8
	Corollary courses from outside the school that support program goals; ACCT 101, ECON 103 and 104, and MGT 202 or MKT 202; 20 hours at the 300-400 level in business and/or organizational communication.	35

### Media Studies Sequence

This plan of study offers students the opportunity to build a program in one of four areas of study: Electronic Media, International Communication, Media and Society, and Politics and Media.

In addition, a student can design an individualized program of study. In consultation with the sequence director and a faculty advisor, the student submits for approval a proposal for coursework including justification and corollary.

Students must complete the TCOM Core, the Media Studies Core, and coursework from one of the areas of study. The following are required:

#### Media Studies Core:

TCOM 260	Mass Comm Theory	4
TCOM 279	History of Electronic Comm	4
	Telecommunications electives with advisor approval	8
	Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300- to 400 level)	35

### Electronic Media Technologies

#### Major code BC5350

3 of the following:

TCOM 308	Technical Basis of Telecomm	4
TCOM 421	Non-broadcast Video	4
TCOM 441	Instructional Telecomm	4
TCOM 463	New Technology	4
TCOM 465	Satellite Communication	4
TCOM 466	Technology, Communication and Culture	4

### International Communication

#### Major code BC5349

3 of the following:

TCOM 371	Effects of Mass Comm	4
TCOM 384	Media Criticism	4
TCOM 463	New Technology	4
TCOM 465	Satellite Communication	4
TCOM 466	Technology, Communication and Culture	4
TCOM 486A	Age, Class, Gender, Race, Sexual Orientation	4

### Media and Society

#### Major code 5348

3 of the following:

TCOM 459	Audience Research	4
TCOM 384	Media Criticism	4
TCOM 440	Public Telecommunications	4
TCOM 454	Personal Values in Telecommunications	4
TCOM 466	Technology, Communication, and Culture	4
TCOM 475	Politics & Electronic Media	4
TCOM 483	Children and Television	4
TCOM 481	Women in Media	4
TCOM 482	Documentary Genres	4
TCOM 485	The African-American Televisual Images	4
TCOM 486A	Age, Class, Gender, Race, and Sexual Orientation	4

### Politics and Media

#### Major code 5355

(3 of the following):

TCOM 459	Audience Research	4
TCOM 371	Effects of Mass Communication	4
TCOM 463	New Technology	4
TCOM 466	Technology, Communication, and Culture	4
TCOM 475	Politics & Electronic Media	4

### Individualized Concentration

#### Major code BC5351

Specialized study with approval of sequence director and faculty advisor; minimum cumulative g.p.a. of 3.0 required.

### Video Production Sequence

#### Major code BC5313

This plan of study is designed to provide skills in video production with special emphasis on the creative responsibilities of producing and directing. Students must complete the TCOM core, Video Production core, a minimum of 8 hours of video production electives at the 300- or 400-level, and a minimum of 8 hours of non-production electives. The following are required:

#### Video Production Core:

TCOM 240	Intro to Video Production	4
TCOM 231	Short form Media Scriptwriting	4

**Video Production Electives (2 courses required):**

TCOM 308	Technical Basis of Telecommunications	4
TCOM 318	Multiple-Camera Producing and Directing	4
TCOM 319	Single-Camera Producing and Directing	4
TCOM 323	Animation and Videographic Design	4
TCOM 425	Digital Video Post-production	4
TCOM 418	Producing for Video	4
TCOM 419	Narrative Production I	4
TCOM 422	Narrative Production II	4
TCOM 486Y	Athens Video Works	1-4

Telecommunications electives with approval of advisor, including at least 8 hours of non-production courses 8

Corollary courses outside the school that support program goals (from no more than two areas with at least 20 hours at the 300- to 400-level) 35

**Minor in Telecommunications****Minor code ORTCOM**

The minor in telecommunications is available to students in all disciplines.

**Required Core Courses (12 Hours)**

TCOM 110	Telecomm. Writing and Production Planning	4
TCOM 201	Media, Culture and Technology I	4
TCOM 202	Media, Culture and Technology II	4

**Elective Courses (20 hours)**

Select 20 hours from:

TCOM 231, 260, 279, 355, 360, 367, 371, 384, 421, 430, 431, 432, 453, 454, 463, 464, 465, 475, 481, 482

Up to 8 hours in equivalent courses from other institutions will be accepted, but you must take 24 hours in telecommunications at Ohio University to complete the minor.

Total Hours: 32

**Internships**

While not required, telecommunications majors are strongly encouraged to undertake an internship. The school and the college both have hundreds of professional internship opportunities available to students with nearly every major media organization in the United States, as well as internationally. Majors may receive one hour of credit for an off-campus practicum (TCOM 390 or 391) as early as the summer following the freshman year. Students may undertake the formal internship (TCOM 490) by the spring or summer of the junior year, or during the senior year. An internship provides between two and sixteen hours of credit (only four credits apply to the major; the remainder apply to overall hours) for full-time work with an approved sponsor during an academic term. To qualify for an internship, completion of 130-170 credit hours with a minimum cumulative g.p.a. of 2.7 is required. For information, contact the internship coordinator in the dean's office.

**Other Requirements and Standards**

Typically, no course may be counted toward more than one type of school requirement. For example, a course used to meet a Telecommunications General Requirement may not be used to also meet a sequence requirement. However, a Tier II course may also be used to fulfill a Telecommunications General Requirement.

# School of Visual Communication

**Terry Eiler, Director**

The College of Communication offers an interdisciplinary visual communication degree with four specialized sequences. The school has been twice recognized as a Program of Excellence in photography and visual communication by the Ohio Board of Regents. Students can earn a Bachelor of Science in Visual Communication degree.

The program is designed to provide students with realistic and thorough broad-based professionally oriented training in visual communication while providing the necessary liberal arts and cultural background for a strong educational foundation.

Major sequences are offered in informational graphics/publication design, interactive multimedia, photojournalism for newspapers and magazines, and commercial photography (advertising and editorial photographs).

**Goals of the School**

The goals of the School of Visual Communication are (1) to equip students with the necessary skills to be successful in the media, and the background and motivation to enable them to compete for leadership roles in the field; (2) to provide assistance and professional guidance in visual communication to working photographers, editors, and other personnel, newspapers, press services, magazines, industrial photographic departments, trade associations, multimedia and educational media production units, and cultural and scientific visual communicators; (3) to set high standards for visual integrity and communication ethics; and (4) to foster and promote scholarly research and creative activities.

**Internships**

In an effort to provide practical training, the school requires students to work at least one paid internship for 10 weeks during their college career. Any qualified student may compete for an internship. Many students have several internships before graduation.

In recent years, Ohio University visual communication students have worked on paid internships at newspapers and magazines and in advertising, commercial photography, fashion industry, and multimedia design. Internships have been available in almost all states and several international locations.

Many Ohio University visual communication students are active members of the Ohio News Photographers Association and other state press photographer groups and are student members of the National Press Photographers Association, the Society for News Design, National Association of Black Journalists, and the American Society of Media Photographers. Ohio University students have been highly successful in state and national competitions.



## Bachelor of Science in Visual Communication

### Admission Requirements—B.S.V.C.

The School of Visual Communication admits a limited number of students and the selection process is very competitive. The school has an application deadline of December 15.

Students seeking acceptance to the School of Visual Communication must first be accepted for admission to Ohio University. Once accepted by the University, applicants will receive a written invitation to interview for direct admission to the school.

Interviews are normally conducted in January of the year you wish to enter the school. The interview process includes a review of the applicant's portfolio and submission of a written essay.

Student applicants usually rank in the top quarter of their high school class and/or have outstanding SAT or ACT scores. In addition, students who demonstrate notable talent or experience or are members of a historically under-represented group are encouraged to seek admission.

For this career-oriented professional program you will need professional equipment to complete assignments and eventually compete in the job market. Ensuring every opportunity for students to excel in a very competitive field, the school requires use of certain basic levels of equipment.

All students are required to have access to a 35mm SLR camera with a 35mm f/2 lens or a 50mm f/2 lens. The camera should permit full manual control over aperture, shutter speeds, film speed settings, and focus. An automatic "point and shoot" camera will not meet the requirements of any VICO photographic class. Please contact the school for current equipment recommendations.

It is highly recommended that all students in the school have their own computer for use in completing class assignments. Students majoring in Interactive Multimedia and Informational Graphics/Publication Design are required to have access to a computer with appropriate software by the time they enter VICO 314. Please contact the school for current hardware and software recommendations.

Photojournalism students entering VICO 390 should have access to at least one professional-level 35mm SLR camera (film or digital), two lenses, and necessary accessories. One lens should have a 35mm or wider focal length with an f/2.8 or faster aperture. The second lens should be in the 135 to 200mm f/2.8 range. Zoom lenses are also acceptable if they meet the fixed aperture requirement of f/2.8.

Commercial Photography students entering VICO 321 should have access to a professional-level medium-format camera with interchangeable film backs, a Polaroid back, one wide-angle lens, one telephoto lens, and an electronic flash meter.

You can expect to spend approximately \$400-\$700 per photography course for materials.

### Transfer Students

The following policy has been established by the School of Visual Communication as a means of selecting the best qualified students for the program. The academic quality of the curriculum depends in part on maintaining enrollment

at a number that may be effectively served by faculty and facilities. The school is dedicated to top-quality instruction, and this policy is one means through which that goal is achieved.

**Very limited** transfer openings may be available in each major sequence each academic year.

The School of Visual Communication will accept transfer students **only** when openings are available. Please call the school to determine the current status of transfer openings.

Students transferring with over 90 hours of credit will find it difficult to complete the school's curriculum in two years.

Transfer applicants from outside Ohio University must follow the procedures for admission to the University.

You must be enrolled for one academic year (three consecutive quarters) or the final 48 hours in the school to earn a degree.

### Transfer requirements:

1. Transfer students will be considered only when they have completed at least 48 quarter hours of study.
2. Students must have a minimum 3.0 g.p.a. at the time of transfer.
3. Current Ohio University students must have completed VICO 120 with a grade of C or better (VICO 120 is offered only in fall quarter).
4. Current Ohio University students must have completed Journalism 133 with a grade of C or better.

Students applying for transfer must submit to the school an application packet that includes the following material:

1. Copy of the applicant's most recent DARS report or transcript. This information must reflect grades from your most recent quarter or semester.
2. Written statement explaining reasons for applying for transfer to the School of Visual Communication. Please indicate your desired major sequence. Academic goals should be included in this statement of purpose.
3. Résumé.
4. Current Ohio University students must have three letters of recommendation (all should be from University professors outside of VisCom).
5. Portfolio.
6. Completion of an interview meeting with a faculty committee in the school (schedule a transfer informational meeting by calling the school office at 593-4898).

Current Ohio University transfer applications will be considered once a quarter only if openings are available. Deadline for transfer application materials: Noon on the third Friday of fall, winter, or spring quarter.

### Major sequence change requirements for students in the School of Visual Communication:

Students with less than 90 earned credit hours may apply for transfer within the school. Requirements include: a written request by the student to the school, approved by faculty committee, and available openings in the requested major sequence.

Students with over 90 earned hours seeking an internal transfer must meet the same transfer requirements as those students seeking admission to the school.

**General Requirements—B.S.V.C.**

School of Visual Communication majors are required to meet all General Education Requirements of Ohio University, including Tier I, Tier II, and Tier III.

The general education requirements provide a liberal arts and sciences core for all students with the following courses:

Anthropology 101 (1 qtr)

History (2 qtrs)

Philosophy 120 and 130 (2 qtrs)

Political Science (2 qtrs)

Psychology 101 (1 qtr)

Sociology 101 (1 qtr)

A thoughtful selection from the Tier II list will enable you to meet the school requirements while fulfilling many of Ohio University's Tier II requirements.

**Specialization Area Requirement**

Visual Communication students must complete a minimum of 20, school-approved hours of related study in advanced courses (200 level and above).

No course may be counted for more than one type of school requirement. For example, a course used to meet a general requirement may not also be applied to a specialization area or sequence requirement.

**Visual Communication Core Requirements**

All Visual Communication majors complete a basic core of seven courses totaling 33 hours:

ART 116	Drawing I	4
AH 237	Photo History Survey	4
JOUR 133	Precision Language for Journalists	4
VICO 120	Intro to Visual Communication (fall only)	4
VICO 140	Studies in Visual Communication (winter only)	4
VICO 221	Intro to Visual Communication Skills	4
VICO 314	Intro to Publication Design	5
VICO 371	Digital Imaging	4
	<b>Total core requirements</b>	<b>33</b>

**Standards**

- 1 You must earn a C (2.0) or better in JOUR 133 and in all professional courses (VICO, JOUR, ART, and TCOM), including professional electives, to graduate. A grade of C– does not meet this requirement.
- 2 To qualify for admission to JOUR 231, you must achieve at least 25 words per minute on a typing examination administered on the first day of class.
- 3 Failure to achieve a C in a professional course after 2 attempts will result in the student's being dropped from the School of Visual Communication.

**Visual Communication Sequence Requirements****Informational Graphics/Publication Design****Major code BS6924**

ART 250	Graphic Design Principles	5
ART 251	Typography	5
ART 113	Three Dimensional Design	4
ART 117	Drawing II	4
JOUR 231	News Writing	4

JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
VICO 311	Informational Graphics	5
VICO 323	Publication Layout and Design	4
VICO 335	Picture Editing	3
VICO 336	Adv. Picture Editing	3
VICO 361	Intro to Web Design	4
VICO 412	Adv. Informational Graphics	5
VICO 426	Adv. Publication Layout and Design	4
	<b>Total sequence requirements</b>	<b>56</b>

**Interactive Multimedia****Major code BS6923**

JOUR 233	Information Gathering	3
TCOM 110	Production Writing/Planning	4
TCOM 220	Audio Production	4
TCOM 240	Video Production	4
TCOM 223	Computer Animation	4
VICO 311	Informational Graphics	5
VICO 361	Intro to Web Design	4
VICO 462	Advanced Web Design	4
VICO 473	Interactive Media	4
VICO 488	Interactive Media II	4
	<b>Total sequence requirements</b>	<b>40</b>

**Photojournalism****Major code BS6922**

JOUR 231	News Writing	4
JOUR 233	Information Gathering	3
JOUR 411	Communication Law	3
VICO 222	Visual Communication Tools	4
VICO 335	Picture Editing	3
VICO 390	Intro to Photojournalism	4
VICO 327 or VICO 328 or VICO 393 or VICO 324	Photo Illustration—Fashion Photo Illustration—Still Life Intermediate Photojournalism III Portraiture	4
VICO 391	Intermediate Photojournalism I	4
VICO 392	Intermediate Photojournalism II	4
VICO 486	Advanced Photo Reportage I	4
VICO 487 or VICO 421	Advanced Photo Reportage II Documentary/Essay	4 or 5
	<b>Total sequence requirements</b>	<b>41-42</b>

**Commercial Photography****Major code BS6925**

JOUR 250	Advertising Principles	4
VICO 222	Visual Communication Tools	4
VICO 321	Intro to Photo Illustration	4
VICO 327	Photo Illustration—Fashion	4
VICO 328	Photo Illustration—Still Life	4
VICO 324	Portraiture	4
VICO 427	Adv. Photo Illustration (Business Practices)	5
VICO 428	Adv. Photo Illustration (Studio Practices)	5
VICO 429	Adv. Photo Illustration (Applications)	5
	Choice of 8 hours of advisor approved business law, accounting, marketing courses	8
	<b>Total sequence requirements</b>	<b>43</b>

# College of Education

McCracken Hall

James L. Heap  
Dean

Bonnie Beach  
Associate Dean

Ginger Weade  
Associate Dean

The College of Education is a professional college whose major goal is to prepare individuals for future careers related to education. A wide range of programs is offered for teaching at the early childhood, middle childhood, and high school levels and for other educational positions. The college provides graduate study in a variety of professional education fields.

All undergraduate programs include a broad base of general education, intensive preparation in the subject matter field, and professional emphasis that combines theory with practice. Each program is thus designed to prepare students to enter their future career with a strong background in liberal arts, educational strategies and techniques, and a thorough understanding of teaching and learning processes.

The College of Education is accredited by the North Central Association of Colleges and Secondary Schools and the National Council for Accreditation of Teacher Education (NCATE) and is approved for teacher preparation by the Ohio State Department of Education.

The College of Education shares the mission of Ohio University. Its special mission is to provide supportive and challenging experiences that foster the development of educational and human services professionals and the communities they serve. The college is a center for the development of knowledge and effective practices in education, human development, and organizational leadership. It promotes the efforts of participants to design and experiment with new practices, evaluate their impact, and share the results. Thus, programs evolve and are frequently improved to comply with changing standards established by the State of Ohio and accrediting agencies.

The information provided here does not include changes made after the printing deadline. Students must follow the program requirements that are in effect at the time of their acceptance into a teacher licensure program and be prepared to incorporate additional changes that may be required by program revisions. When you first enroll at Ohio University, the academic requirements and policies you must follow are determined by the catalog of entry and are effective for a period of five years. If you do not meet all requirements within five years, the requirements of the current catalog apply. Contact the Office of Student Services for current information about a particular program.

## Bachelor of Science in Education

The Bachelor of Science in Education represents the completion of a program designed to allow you to attain competence in three areas: (1) the principal academic fields; (2) the knowledge, skills, attitudes, and values underlying teaching; and (3) general/liberal education.

Besides University General Education Requirements, you must complete the licensure requirements established for the program you are following.

The College of Education's Department of Teacher Education has 5 undergraduate program areas. These are Early Childhood, Middle Childhood Education, Adolescent to Young Adult Education, Multi-age Education Programs and Special Education.

Courses in Reading and Literacy Education are infused in all program

areas, and may also be chosen by students seeking an endorsement in Reading Education.

The Early Childhood major, offered jointly by the Colleges of Education and Health and Human Services, prepares one to teach children between the ages of 3 and 8 years.

Students must meet the criteria for selective admission and retention in Early Childhood. Enrollment in the program is limited to promote quality instruction, appropriate field placement and effective advising. Contact your Office of Student Services or your academic advisor for details on the Early Childhood restrictive admission criteria and process.

Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree conferred jointly by the Colleges of Education and Health and Human Services. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio

two-year provisional teaching license in Early Childhood Education.

Middle Childhood Education prepares students for a license to teach grades 4 through 9, in elementary school, upper primary grades, middle school, junior high school, or high schools (9th grade only). All Middle Childhood licensure programs require students to choose two subject area content specializations. The subject content specializations include Language Arts, Mathematics, Science and Social Studies. A Generalist Endorsement for each of the four subject specializations will be available in the near future for students who wish to add a third or fourth specialization to the Middle Childhood license.

Students must meet the criteria for selective admission and retention in Middle Childhood Education. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Middle Childhood Education.

Adolescent to young Adult Education (formerly Secondary Education) prepares students for a license to teach in high schools or junior high schools in Grades 7 through 12. Specific programs vary by subject content areas, including Earth Sciences, Integrated Language Arts, Integrated Mathematics, Integrated Sciences, Integrated Social Studies, Life Sciences and Physical Sciences (Chemistry and Physics).

Students must meet the criteria for selective admission and retention in the Adolescent to Young Adult Education program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Adolescent to Young Adult Education.

Mult-Age Education programs prepare students for a license to teach in Ohio in grades pre-K through 12. Specific programs include Visual Arts Education, Modern Languages, Music Education-Choral Emphasis, Music Education-Instrumental Emphasis and Physical Education.

Students must meet the criteria for selective admission and retention in the Multi-Age Education Program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license in Multi-Age Education.

Special Education offers programs leading to the Intervention Specialist teaching license. The license is valid for teaching learners ages 5 through 21 and kindergarten through grade 12. There are two Intervention Specialist licensure programs available. The Intervention Specialist Mild to Moderate educational needs major and the Intervention Specialist Moderate to Intensive needs major. Enrollment in the program is limited to promote quality instruction, appropriate field placement and effective advising.

Students must meet the criteria for selective admission and retention in the Special Education program. Graduates of the program will earn the Bachelor of Science in Education (B.S.Ed.) degree. Upon conferral of the degree and passing the PRAXIS II exams, you are eligible for an Ohio two-year provisional teaching license as an Intervention Specialist.

All undergraduate teacher education programs at Ohio University conform to state standards for licensure issued by the State Department of Education of Ohio and the National Council for Accreditation of Teacher Education.

These programs and courses apply to all students entering Ohio University in the 2004-05 school year but are subject to change to conform to any revisions set forth by the State Department of Education and national accrediting agencies. If you have any questions about your program requirements, contact your advisor or Student Services, Ohio University, McCracken Hall 124, Athens OH 45701-2979, telephone 740.593.4400.

E-mail: [education@ohiou.edu](mailto:education@ohiou.edu). Internet: <http://www.ohio.edu/education/>

Title II of the Higher Education Act (1998) requires that all institutions engaged in teacher preparation to report information on how the institution performed based on annual data from a national testing company. See the chart below for the most recent data.

#### Passing Rates of Certification/Licensure Examinations

For initial certification/licensure in the State of Ohio, individuals must pass PRAXIS II examinations. This series of tests, developed by the Educational Testing Service, include professional knowledge and the content knowledge test(s) for the specific certificate/license being sought. In the 2002-2003 academic year, 604 individuals completed teacher education programs at Ohio University. Ninety-four percent (94%) of the program completers passed all the PRAXIS II exams that they were required to take. The passing-rate for Ohio University graduates on individual tests are reported in the table below.

Name of Test	Ohio University# Taking Test	Ohio University Passing Rate
Principles of Teaching and Learning K-6	38	95%
Principles of Teaching and Learning 5-9	125	92%
Principles of Teaching and Learning 7-12	160	94%
Early Childhood Education	239	99%
Eng Lang Lt Comp Content Knowledge	32	94%
Middle School Language Arts	56	96%
Mathematics Content Knowledge	25	72%
Middle School Mathematics	33	100%
Chemistry, Physics, and General Science	7	NC
Social Studies Content Knowledge	33	100%
Middle School Social Studies	81	90%
Physical Education Content Knowledge	11	91%
Music Content Knowledge	17	94%
Art Content Knowledge	22	91%
French Content Knowledge	5	NC
Spanish Content Knowledge	5	NC
Biology Content Knowledge Part 1	11	91%
Biology Content Knowledge Part 2	11	82%
Earth Science Content Knowledge	1	NC
Family and Consumer Science	3	NC
Special Education Knowledge-Based Core Principles	52	100%
SUMMARY TOTALS AND PASS RATES	570	94%

\*NC (Not Calculated) – Indicates that statistical calculations were not made. When fewer than 10 individuals take a specific test, the results are not statistically reliable.

## Selective Admission and Retention

The college has a selective admission and retention process that applies to all students who intend to complete the teacher preparation program through Ohio University. Decisions regarding the retention of teacher education students in licensure programs will be made through a continual quarterly evaluation of progress in coursework, clinical experiences, and field-based experiences. Evaluation criteria will be directly related to the specific knowledge, skill, attitude, and value objectives associated with each experience. There are three selection phases in this process, two of which are described below. The third phase is detailed under "Student Teaching."

You may appeal a decision regarding admission or retention by filing an appeal with the Credential Review Committee. Appeal information may be obtained from Student Services, McCracken Hall 124.

### Admission to Professional Education

You must be admitted to professional education before taking any education courses numbered 200 and above.

Generally you apply for admission to professional education during the third quarter of your first year. Athens campus students must attend a group meeting arranged by Student Services, and regional campus students should check with Student Services or the dean's office on the regional campus for information.

#### Requirements

Students must include specific courses listed below during their first 45 hours of enrollment. These requirements are subject to change.

**1** Completion of 45 quarter hours of credit with an overall grade-point average (g.p.a.) of 2.75. No education courses may be included in the g.p.a.

**2** Students must complete the following courses with a grade of "C" or better in each course.

**a** PSY 101 General Psychology

**b** All Tier I freshman composition and mathematics, and COMS 103

**3** Satisfactory performance on the PRAXIS I (PPST/CBT) Test. You must achieve scores of 172 or above in writing and mathematics and 173 or above in reading **OR** be exempt from the test due to a standardized test score. You must have achieved a composite score of 21 or better on the ACT and/or 990 or better on the SAT to be exempt. You may not enroll in education courses until this requirement is met.

**4** Submission of a statement confirming that your record is clear of any felony convictions, obtained by Student Services.

**5** Submission of results of the tuberculosis skin test (administered by Hudson Health Center or other appropriate office)

**6** Screening and recommendation by a representative appointed by faculty.

**7** Submission of two professional references.

**8** If you are a transfer student, you may be required to submit recommendations from your previous college. Your g.p.a. may be considered in admission decisions.

### Admission to Advanced Standing in Professional Education

You must be admitted to advanced standing before taking any education courses numbered 300 or above. You must maintain an overall g.p.a. of 2.75, as well as a 2.75 g.p.a. in each teaching field for which licensure is sought to continue to take education courses numbered 300 or above. Methods courses can be taken no more than twice. Failure to obtain a satisfactory grade can result in dismissal from the program.

Generally you apply for advanced standing in professional education at the end of the third quarter of your sophomore year. Athens campus students must attend a group meeting arranged by Student Services, and Regional campus students should check with Student Services or the dean's office on the regional campus for relevant information.

These requirements are subject to change.

#### 1 General requirements

**a** Completion of 90 quarter hours of credit with an overall g.p.a. of 2.75.

**b** An accumulative g.p.a. of 2.75 in each teaching field for which a licensure is sought.

**C** Satisfactory reports from:

**(1)** Judiciaries

**(2)** Faculty

**d** Screening and recommendation by a representative appointed by faculty.

**e** Completion of a one-page statement of purpose, including students' goals as future educators.

#### 2 Specific requirements for early childhood education

Completion of the following courses with a minimum grade of C in each and a 2.75 g.p.a.:

**(1)** HCCF 160

**(2)** HCCF 160A

**(3)** HCCF 170

**(4)** HCCF 260

**(5)** HCCF 260L

**(6)** HCCF 361

**(7)** HCCF 361L

**(8)** EDSP 271

**(9)** EDEC 206

#### 3 Specific requirements for middle, adolescent-young adult, multi-age (Pre-K-12) and intervention specialist education

**a** Completion of the following courses with a minimum grade of C in each

**(1)** EDTE 200

**(2)** EDTE 201

**(3)** EDTE 202

**b** A 2.75 g.p.a. in each teaching field for which licensure is being sought.

### Transfer to the College of Education

Students from other colleges at Ohio University who wish to transfer into the College of Education must have an accumulative g.p.a. of 2.75. Admission requirements are subject to revision.

### Professional Expectations

Membership in the Ohio University academic community carries with it certain rights and responsibilities that are specifically delineated in the Student Code of Conduct. In addition, membership in the education profession requires that you demonstrate the ability and commitment to respect the dignity, worth, and diversity of all persons with whom you work and study, including peers, school students, and professional contacts on campus and in the community. The complete policy regarding professional expectations is available from the College of Education.

### Student Teaching

Successful student teaching represents the culmination of professional preparation; it is a requirement in all teacher preparation programs. Early Childhood and double majors require additional student teaching.

### Application

It is your responsibility to submit an application for student teaching to the Office of Student Services no later than December 1 preceding the academic year in which a student teaching assignment is desired.

### Schedule, Housing, Transportation, and Assignments

You will experience a complete range of the teacher's activities in full-time student teaching assignments for one quarter. It is expected that you will take no other courses when you are Student Teaching. Exceptions to this policy must be approved by the Associate Dean. The assignment of each student to a school is the responsibility of the Office of Student Teaching. You must secure your own housing and provide your own transportation to your assignments. You will need a car. Student teaching assignments in the Athens area are made within a commuting radius from one of the six campuses. You will indicate your preferences when you apply. The University assumes no responsibility for your transportation.

### Prerequisites for Student Teaching

Applicants are evaluated for admission to student teaching in terms of the prerequisites described in this section. You are responsible for meeting the appropriate prerequisites prior to the opening of the quarter designated for student teaching on your application. In addition to the prerequisites detailed in this section, applicants in music, physical education, human and consumer sciences, and hearing and speech therapy must have approval of the appropriate departmental head.

Enrollment in student teaching is open only to Ohio University degree candidates or to degree holders who are completing Ohio licensure requirements and who will be eligible for Ohio University's recommendation for an Ohio license upon the completion of student teaching.

Requirements must be completed by the time you begin student teaching, not at the time of application.

#### 1 General requirements

**These requirements are subject to change.**

- a** Completion of at least two quarters (30 quarter hours) of residence work at Ohio University. Transfer students must complete at least one-fourth of the preparation in the principal teaching field at Ohio University.
- b** Completion of at least 135 quarter hours with accumulative g.p.a. of 2.75.
- c** Completion of all requirements to be admitted to advanced standing in professional education at least one quarter prior to starting student teaching, including passing scores on PRAXIS I or equivalent.
- d** Completion of junior-level English composition requirement with a C or better.
- e** Completion of a significant portion (at least 75 percent) of the general education portion of the teacher education program you are pursuing and all of the University General Education Tier I and Tier II requirements.
- f** Screening and recommendation for student teaching by a representative appointed by the faculty.

#### 2 Specific requirements for early childhood education: EDPL 458, 459, 465; early childhood practicum

- a** You must meet all general requirements for admission to student teaching.
- b** Completion of the following courses with a g.p.a. of 2.75 and a minimum of a C in each:
  - (1) HCCF 160, 160A, 170, 260, 260L, 361, 361L, 363, 363L, 371, 455, 455L, 463, 465, 467
  - (2) EDTE 220, 371C, EDEC 269 or 206, 225, 319, 330, 330L, 340, 340L, 350, 350L, 421, 421L

#### 3 Specific requirements for middle childhood: EDPL 461, 462, 465

- a** Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:
  - (1) EDTE 200, 201, 202, 371A
  - (2) EDCS 301, 400
  - (3) EDCT 203
  - (4) EDMC 300, 301
  - (5) Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

- (6) Specific methods courses, one in each concentration area

**b** Completion of a major portion (at least 75 percent) of the work in each of the two concentration areas in which the student wishes to be licensed.

**c** An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

#### 4 Specific requirements for adolescent-young adult: EDPL 463, 464, 465

**a** Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDTE 200, 201, 202, 371B
- (2) EDCS 301, 400
- (3) EDCT 203
- (4) EDSE 350, 351

**(5)** Methods courses associated with your content area

**b** Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

**c** An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

#### 5 Specific requirements for multi-age art, music, physical education, and the modern languages: EDPL 461, 463, 465

**a** Completion of the following courses with a g.p.a. of 2.75 and a minimum grade of C in each:

- (1) EDTE 200, 201, 202, 371A
- (2) EDCS 301, 400
- (3) EDCT 203
- (4) EDSE 350, 351

**(5)** Methods courses associated with your content area

**b** Completion of a major portion (at least 75 percent) of the work in each of the teaching fields in which the student wishes to be licensed.

**c** An accumulative g.p.a. of 2.75 in each teaching field for which licensure is sought.

#### 6 Specific requirements for mild-moderate educational needs: EDPL 461, 463, 465

**a** Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.

**b** Completion of all field experience courses required in Blocks I, II, III, IV, and EDEC 330, 330L, EDTE 220, 325, EDCS 301, 400.

**c** Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

#### 7 Specific requirements for moderate-intensive educational needs: EDPL 461, 463, 465

**a** Completion of all courses in Blocks I, II, III, and IV with a minimum grade of C in each course and a 2.75 g.p.a. in all blocks.

**b** Completion of all field experience courses required in Blocks I, II, III, IV, and EDEC 330, 330L, EDTE 220, 325, EDCS 301, 400.

**c** Eighteen hours of state required reading courses: EDTE 220, 325, 420, and 421

HSW, or PED classes may count in the total hours required for graduation. Additionally, no more than 8 hours of developmental coursework may be used toward the completion of a degree. Although courses can apply to more than one requirement, the hours earned for such classes may only count once in the total. Students are required to have an accumulative g.p.a. of 2.75, and to have a 2.75 or higher in the field(s) for which licensure is sought.

## Teaching Licenses

If you plan to teach in Ohio, you will apply for a teaching license one month before completing the required classes. Before you will be licensed to teach, passing scores for the Praxis II exams must be reported to Student Services in the College of Education. You also need a 2.75 overall g.p.a. and a 2.75 g.p.a. in each field for which licensure is sought. Applications may be obtained from Student Services, McCracken Hall 124, or your regional campus student services office. The license is issued by the State Department of Education and qualifies you to teach the subjects indicated on the license.

To be recommended by Ohio University for licensure, you must have a level of preparation in your major area of specialization that corresponds with the outline on the preceding and following pages, even though these requirements in many instances exceed those shown in the state licensure regulations.

Completion of requirements for graduation and of the professional courses required for licensure does not ensure that you will be recommended for licensure. Instructors in various courses, especially in courses in education and student teaching, will evaluate your fitness for the teaching profession in ways other than observation of academic performance in the classroom. Limitations that might impair your effectiveness as a teacher in the public schools will be made a part of your record. When you apply for a license, this record will be examined and your fitness for teaching given further consideration.

All students applying for a teaching license must undergo a background check by the Bureau of Criminal Identification and Investigation (BCI). The State Department of Education will not issue a new license until it receives a copy of the background check from the BCI. This requirement includes:

## Graduation Requirements

Each student must earn at least 192 quarter hours and successfully completed a program to receive a degree from the College of Education. Students completing two degrees must complete a minimum of 208 hours. No more than 20 hours of courses may be taken through the Pass/Fail option. No more than 6 hours of HSC, HSM,

- 1 Those applying for their first license
- 2 Those who have a license but are applying for an additional license

If you are applying for an endorsement, you will not need to undergo a background check.

If you are not planning to teach in Ohio, familiarize yourself with the requirements specified by the state in which you expect to teach.

Once you are issued a two-year provisional license, you are required to complete the Entry Year Program and Performance Based Assessment (PRAXIS III) in order to be eligible for a five-year professional license.

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### Out-of-State Licensure and Reciprocity

Many states have licensure guidelines that allow all NCATE-accredited colleges to recommend students for licensure. If you need to obtain licensure outside Ohio, contact the Department of Education in the appropriate state to obtain an application and learn if additional tests or courses are required. Your out-of-state application should be sent to Student Services, McCracken Hall.

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### Partnerships

In conjunction with public schools in southeastern Ohio, the College of Education has developed several partnerships. Partnership programs provide increased field experience opportunities for preservice teachers to learn with, and from, experienced teachers. Partnership schools support and encourage ongoing professional development for faculty and administrators. Current partnerships for Early Childhood Education include: Chauncey Literacy Partnership, East R.E.A.D. Partnership, and The Plains Partnership. For Middle Childhood, Adolescent to Young Adult, and Multi-Age majors, the Creating Active and Reflective Educators (C.A.R.E.) Partnership is offered.

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### Placement

The Office of Career Services, located in Lindley Hall, offers assistance to undergraduate students seeking educational positions. Information about available teaching and administrative positions in the public schools, as well as openings in education, student personnel, counselor education, and physical education departments of colleges and universities of most states and many foreign countries, is disseminated through the office.

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### Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

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## Department of Counseling and Higher Education

The Department of Counseling and Higher Education offers only graduate programs. However, some undergraduate courses are available in career counseling and human

relations. For more information about graduate programs, contact Student Services, McCracken Hall 124, telephone 740.593.4420.

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## Department of Educational Studies

The Department of Educational Studies offers only graduate programs; however, some undergraduate courses are provided for licensure programs in the Department of Teacher Education. For more information about graduate programs, contact the Office of Student Services, McCracken Hall 124, telephone 740.593.4420.

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## Department of Teacher Education

The Department of Teacher Education comprises five major program areas: early childhood education, middle childhood education, secondary education (adolescent-young adult), special education (intervention specialist) and multi-age education. The department provides the opportunity for students admitted to professional education to pursue undergraduate courses leading to teacher licensure in the state of Ohio. Listed below are program descriptions and course requirements for each of the licensure patterns offered.

For more information about undergraduate programs contact the Office of Student Services, McCracken Hall 124, (740) 593-4400.

**Changes in state standards may dictate requirement changes not available at printing. Check with the student services office for current information.**

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### Early Childhood Education

#### Major Code BS6854

Early Childhood Education prepares you to teach children between the ages of three and eight years of age. You must meet the criteria for selective admission and retention in Teacher Education, including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of the program and passing the Praxis II exams, you are eligible for an Ohio two-year provisional license in Early Childhood Education.

The Early Childhood Education program is offered jointly by the Colleges of Education and Health and Human Services, if you wish to be licensed through Ohio University to teach age three through grade three, you must complete the following program and earn passing scores on the Praxis II exams.

#### Restrictive Admission

Enrollment in the program is limited to promote quality instruction, appropriate field placement, and effective advising. Contact the office of Student Services or your academic advisor for details on the Early Childhood restrictive admission criteria and process.

#### Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes

the arts, communications, history, literature, mathematics, philosophy, sciences, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see Graduation Requirements section) and the requirements for teacher licensure.

**Specific Tier I quantitative skills courses that are required:**

MATH 120\*, 121, 122 Elementary Topics in Math11 (10 hrs min req'd)

Note: These math courses are recommended; however, any math courses numbered 120 or above and totaling 10 hours will be acceptable.

**Specific Tier II courses that are required:**

PSY 101 General Psychology 5

Select one course from the following American history or political science options:

HIST 200 Survey of United States History 1600-1865 4

HIST 201 Survey of United States History 1865-present 4

POLS 101 American National Govt 4

POLS 102 Issues in American Politics 4

POLS 103 The U.S. in World Affairs 4

**Biological Science requirement:**

PBIO 100L World of Plants 5  
or BIOL 101 Principles of Biology

**Earth Science requirement:**

GEOG 101 Physical Geography 5  
or GEOL 101 Introduction to Geology

**Physical science requirement:**

PSC 100 & 140 Survey of Astronomy & Lab 5  
or PSC 100D & 140 Moons & Planets:

the Solar System & Lab

or PSC 101L Physical World

or PSC 105L Color, Light & Sound

or PHYS 201 Introduction to Physics

Note: The three required science courses must each include a lab and must be from the above list.

**Speech Requirement:**

COMS 103 Fund. of Public Speaking 4

**Professional Requirements**

You must earn a grade of C or better in all of the following courses, except HCCF 462A, HCCF 462B, HCCF 462C, HCCF 462, or HCCF 462F.

HCCF 160 Intro to Child Development 4

HCCF 160A Observing & Recording Young Childhood Behavior 3

HCCF 170 Intro to Early Childhood Ed 3

Admission to professional education is required to take the following courses:

HCCF 260 Diversity in Early Childhood Education 3

HCCF 260L Clinical: Diversity and Awareness 1

HCCF 361 Guidance and Classroom Management in EC Ed 3

HCCF 361L Clinical: Guidance and Classroom Mgt 1

HCCF 363 Creative Experiences in Early Childhood 4

HCCF 363L Clinical: Creative Experiences 1

HCCF 371 Family Development 3

EDCT 203 Technological Applications in Education 4

EDTE 220 Phonics 5

EDTE 371C Instructional Adaptations for Learners with Exceptionalities 4

EDEC 206 Introduction to Integrated Curriculum 4

EDEC 225 Emergent Reading and Literacy 4

EDSP 271 Intro to Education of Exceptional Children 4

After admission to advanced standing, take the following:

HCCF 455 Curriculum & Teaching Strategies in EC 4

HCCF 455L Clinical: Curriculum & Teaching Strategies 2

HCCF 463	Preschool Admin.	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy & Theories of Child Development	3
EDEC 319	Reading & Literature in EC Classrooms	5
EDEC 330	Teaching Young Children Mathematics	4
EDEC 330L	Clinical: Lab with EDEC 330	1
EDEC 340	Teaching Science for Young Children	4
EDEC 340L	Clinical: Lab with EDEC 340	1
EDEC 350	Teaching Social Studies in Early Childhood	3
EDEC 350L	Clinical: Lab with EDEC 350	1
EDEC 421	Observing Children for Reading Strategies & Skills	2
EDEC 421L	Clinical: Observing Children for Reading Strategies & Skills	2

**Related requirements:**

HCFN 128 Intro to Nutrition 4

NRSE 303 Health & Safety in EC 3

PESS 270 Teaching of Physical Ed 3

**Select one of the following five courses:**

HCCF 462A Pluralistic Life Styles 4

HCCF 462B Parenthood 4

HCCF 462C The One-Parent Family 4

HCCF 462E Youth Identity Crisis 4

HCCF 462F Family Ties and Aging 4

**Primary Student Teaching**

(apply by Dec. 1, one year in advance)

Take three courses concurrently:

EDPL 458 Student Teaching 7

EDPL 459 Student Teaching 6

EDPL 465 Student Teaching 3

**Pre-School Student Teaching**

(apply by one year in advance in Grover Center W 324)

HCCF 474 Early Childhood Student Teaching 6

HCCF 400 Early Childhood Seminar 3

## Middle Childhood Education Programs

To receive a B.S.Ed. in Middle Childhood Education, you must complete a program of coursework and achieve passing scores on the Praxis II exams prior to licensure. The program includes coursework well distributed over two academic concentrations. Academic concentrations may be chosen in language arts, mathematics, science and social studies. These will be the two subjects you are licensed to teach in grades 4-9. Upon completing the program and achieving passing scores on the Praxis II exams, you are eligible for a two-year provisional teaching license for grades 4-9 in those areas.

### Required General Education Courses (minimum required hours: 52)

You are required to fulfill Ohio University's General Education Requirements. Some concentrations include courses that are also required Tier courses. To avoid taking unnecessary courses, it is important that you meet with your advisor when planning your schedule.

Admission to professional education requires a grade of C or better in the following courses:

PSY 101 General Psychology 5

Tier I Math

COMS 103 Fund. of Public Speaking 4

Tier I English

Reminder: All students pursuing teacher education programs at Ohio University are subject to the Selective Admission and Retention Program in teacher education. Criteria and procedures are available in the Office of Student Services, McCracken Hall 124.



**Professional requirements: 26**

All professional courses are taught with a middle childhood focus. The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Develop.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
EDCT 203	Technological Appls. in Education	4
EDCS 301	Educ. and Cult. Diversity	4
EDTE 371A	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Professional Educator	4

All middle childhood majors take the following two courses:

EDMC 300	Middle Childhood Instr. Process and Curriculum	4
EDMC 301	Middle Childhood Educ. and Curriculum	5

Two methods courses are required, one in each of the two concentrations chosen:

EDMC 310	Teaching Lang. Arts in Middle Childhood Grades	4
EDMC 310L	Clinical Experience with EDMC 310	1
EDMC 330	Teaching Mathematics in Middle Childhood Grades	4
EDMC 330L	Clinical Experience with EDMC 330	1
EDMC 340	Teaching Sci. in Middle Childhood Grades	4
EDMC 340L	Clinical Experience with EDMC 340	1
EDMC 350	Teaching Soc. Studies in Middle Childhood Grades	4
EDMC 350L	Clinical Experience with EDMC 350	1

**Required reading core: 18**

A grade of C or better is required in each course in the required reading core, EDMC 300, 301, 360, and methods courses.

EDTE 220	Phonics and the Structure of Language	5
EDTE 325	Literature-Centered Dev. Reading Instruction	5
EDTE 420	Teaching Reading in the Content Area	4
EDTE 421	Foundations of Reading Instruction, Diagnosis, and Remediation	4

**Student Teaching**

EDPL 461	Student Teaching in Middle Childhood	7
EDPL 462	Student Teaching in Middle Childhood	6
EDPL 465	Student Teaching Sem.	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. For example, if you plan to student teach during any of the three quarters of the 2005-2006 school year, apply by December 1, 2004. All student teaching and early field experiences must be completed in grade levels associated with the state's definition of middle childhood (fourth grade through ninth grade). For further information, contact the Office of Student Services, Mr. Craken Hall 124

**Major Requirements**

Select two concentrations from the following four areas. Some of these courses are Tier II classes. Note that some of these courses have prerequisite requirements. Consult with your faculty advisor if you have questions.

**Language Arts Concentration: 45**

ENG 200	Intro to Literature	4
ENG 323	American Lit. 1918-Present	4
ENG 351	History of the Eng. Lang.	4
ENG 352	Dev. of American English	4
JOUR 133 or ENG 350	Precision Language: Traditional Grammar, Mechanics, and Usage	4
LING 270	Nature of Language	5
EDMC 321	Adolescent Literature	4

Select one course from:

ENG 325	Women and Literature	4
ENG 327	African American Fiction	4
ENG 328	African American Poetry	4
ENG 329	African American Drama	4
ENG 331	Studies in Asian Lit.	4
ENG 332	Studies in Asian Lit.	4
ENG 333	Studies in Asian Lit.	4

Select one course from:

ENG 280	Exp. Writing and the Research Paper	4
ENG 361	Creative Writing: Fiction	4
ENG 362	Creative Writing: Poetry	4
ENG 363	Creative Writing: Nonfiction	4

Select two courses from:

COMS 101	Fund. of Human Comm.	4
COMS 205	Group Discussion	4
COMS 220	Oral Interpretation of Lit.	4
THAR 113	Acting Fundamentals I	4

**Mathematics Concentration: 39**

MATH 120	Elem. Topics in Math.	4
MATH 121	Elem. Topics in Math.	4
MATH 122	Elem. Topics in Math.	3
MATH 211	Elem. Linear Algebra	4
MATH 263*A,B	Calculus	8
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics I	4
MATH 330A	Found. of Geometry	4
	Electives at the 200 level or above	4

\*Depending on a student's result on the math placement test given at precollege orientation, additional courses beyond those listed in the concentration area may be required. Be sure to check with your advisor to see if any prerequisites for required math courses need to be taken.

**Science Concentration: 37-40**

CHEM 121	Prin. of Chemistry I	4
CHEM 122	Prin. of Chemistry II	4
GEOG 201	Environ. Geography	4
PHIL 216	Philosophy of Sci. Survey	3
PHYS 201	Intro to Physics	5
PBIO 103	Plants and People	4

Select one course from:

PBIO 100L or PBIO 114	The World of Plants Cell. Foundations of PBIO	4
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Select one course from:

GEOL 101	Intro to Geology	5
GEOL 215	Environmental Geology	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4

Select one course from:

ASTR 100 or PSC 100	Survey of Astronomy	4
ASTR 100D or PSC100D	Moons and Planets: The Solar System	4

**Social Studies Concentration: 45**

ANTH 101	Intro to Cultural Anthro.	5
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
GEOG 121	Human Geography	4
GEOG 201	Environmental Geog.	4
HIST 133	Intro to Non West/Cultural	4
HIST 200	Amer. Hist. to 1865	4
HIST 201	Hist. of the U.S., 1865 to the Present	4
POIS 101	Amer. National Govt.	4
POIS 150	Current World Problems	4
SOC 201	Contemp. Social Problems	4

## Adolescent-Young Adult Education Programs

The following professional and general requirements apply to all adolescent-young adult majors. Individual majors are listed alphabetically in the following pages.

### Professional Requirements for Adolescent-Young Adult: 35–41

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCT 203	Technological Appls. in Education	4
EDCS 301	Cultural Diversity and Education	4
EDTE 3718	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Instructional Processes and Curriculum Methods in Major Field	5 4–6

You may enroll in 200-level courses after admission to professional education.

You may enroll in 300- and 400-level courses after admission to advanced standing.

### Student Teaching

EDPL 463 and 464	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. For example, if you plan to student teach during any of the three quarters of the 2006–2007 school year, apply by December 1, 2005. For further information contact Student Services, McCracken 124.

### Required General Education Courses (45 hours)

In addition to the following program requirements, you also must complete Ohio University's General Education Requirements. Consult with your advisor to plan a course of study that will meet both sets of requirements.

You must meet departmental prerequisites for all classes if you are seeking licensure. For example, you must take and pass PSY 101 with a minimum grade of C before taking any 200 level education course.

If the courses in each field do not add up to a total of 45 hours, you must elect sufficient hours in one or a combination of the following areas to bring the total hours in general education courses to 45 hours.

If your major is the same as one of the areas below, 10 hours of the major may be counted toward the corresponding general education field as well as the major. For example, if your major is integrated language arts, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, below, which is English and/or Foreign Language.

No more than six hours of PED activity courses may be counted toward the degree except for majors in physical education, and none may count toward general education.

### Science and Mathematics

You are required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101, 102, or 320L, is acceptable for the mathematics requirement. Also, all Tier I quantitative skills courses count toward the mathematics requirement. Computer science courses do not satisfy this requirement.

### Interdisciplinary Arts and/or Philosophy

You are required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy (except PHIL 120) or School of Interdisciplinary Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 461L, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

### Social Sciences

You are required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, history, political science, sociology, social work, geography, and psychology, except PSY 120, 226, 275, 312, and 314.

### English and Speech

You are required to complete at least three courses in English and speech. Freshman and junior English composition are required courses taken to satisfy the University English composition requirement (see General Education Requirements section) and will be used toward completion of these hours.

### Honors Tutorial Program in Adolescent-Young Adult Education

If you are admitted to the Honors Tutorial College in an academic major, you may become licensed in adolescent-young adult education by combining two sets of tutorial experiences: one in the academic area and one in adolescent-young adult education. By completing both tutorial programs in addition to other licensure requirements, you will receive an adolescent-young adult teaching license and a bachelor's degree from the Honors Tutorial College. For further information, contact Dr. Joan Safran, Coordinator, Honors Tutorial Program in Secondary Education.

## Life Science

### Major code B56314

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach life science as the major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach life science in grades 7–12 inclusive.

See also the integrated science major in this section.

### Methods Courses

EDSE 440	Teaching of Biology Secondary School Science Methods	4
EDSE 440L	Field Experience Secondary School Science Teaching Lab	2 1

Adolescent-young adult education professional and general education requirements must also be completed.

### Major Requirements: 120–126

BIOS 170	Intro to Zoology	5
PBIO 114	Cell. Foundation of PBIO	5
PBIO 115	Plant Study and Dev.	4
BIOS 171	Intro to Zoology	5
BIOS 172	Intro to Zoology	3
BIOS 173	Intro to Zoology	1
BIOS 221 and 222 or BIOS 321	Basic Microbiology and Lab General Microbiology	6 or 5
BIOS 325 or PBIO 331	General Genetics Plant Genetics	5

PBIO 210	Plant Physiology	4
BIOS 275 or PBIO 209	Animal and Field Ecol. Plant Ecology	4 or 4
BIOS 301 or BIOS 303	Human Anatomy Comparative Vertebrate Anatomy	6
BIOS 330 or PBIO 475	Principles of Evolution Plant Speciation and Evolution	4 or 3
BIOS 376	Field Ecology	4
PBIO 427 or PBIO 450	Molecular Genetics Biotechnology and Genetic Engineering	3 or 4
CHEM 121, 122, 123**	Principles of Chemistry	12
PHYS 201, 202, 203	Intro to Physics	15
MATH 113	Algebra	5
MATH 115 or MATH 163A	Precalculus Intro to Calculus	5 or 4
PSY 221	Stats for the Beh. Sci.	5
PHIL 216	Philosophy of Science	3
GEOL 101	Intro to Geology	5
GEOL 255 or GEOL 221	Historical Geology Earth and Life History	4

\*Request permission from Biology Department to substitute PBIO 331 as prerequisite.

\*\*Before selecting a chemistry sequence, check with an advisor in the College of Education. Some other programs require CHEM 151, 152, and 153 in place of CHEM 121, 122, and 123.

#### Recommended Tier III:

T3 420C or T3 420E or T3 402A or other appropriate T3 course as determined by your advisor	Biol. of Human Social Behavior Disease and Discovery The Human Life Cycle	4
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## Earth Science

### Major code BS6315

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach earth science as a major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach earth science in grades 7–12 inclusive.

See also the integrated science major in this section.

#### Methods Courses

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must also be completed.

#### Major Requirements: 91

CHEM 121, 122, 123	Principles of Chemistry	12
GEOG 101	Physical Geography	5
GEOG 201	Environ. Geography	4
GEOG 202 or GEOG 302	Weather Meteorology	5
GEOL 101	Intro. to Geology	5
GEOL 211	Oceanography	4
GEOL 255	Historical Geology	4
GEOL 312	Earth Materials	4
GEOG 315 or GEOL 330	Landforms and Landscapes Geomorphology	5
GEOL 340	Prin. of Paleontology	4
GEOL 446 or GEOL 466	Earth Systems Evolution Geodynamics: The Earth's Interior	4
PBIO 103 or BIOS 100	Plants and People The Animal Kingdom	4
PHIL 216	Philosophy of Science	3

PHYS 201, 202, 203	Introduction to Physics	15
PSC 100D	Moons and Planets: The Solar System	4
PSC 140	Astronomy Lab	1
PSY 120 or MATH 250 or GEOL 205	Elem. Stat. Reasoning Intro to Prob. and Stats. Stat. Methods in Geology	4
T3 409A*	Geologic Resources	4

\*Recommended Tier III course for this major.

## Integrated Language Arts

### Major code BS6306

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated language arts, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated language arts in grades 7–12 inclusive.

#### Methods Courses

ENG 451, 451L	Teaching. Lang. and Comp.	4
ENG 452, 452L	Teaching Literature	4

Adolescent-young adult education professional and general education requirements must be completed.

#### Major Requirements: 82

ENG 307J	Writing and Research	4
ENG 325	Women and Literature	4
ENG 351	Hist. of the English Lang.	4
ENG 356	Young Adult Literature	4
ENG 399	Literary Theory	4
ENG 453	World Literature	4
COMS 101	Fund. of Human Comm.	4
COMS 205	Group Discussion	4
COMS 215	Argumentative Analysis and Advocacy	4
JOUR 133	Precision Language	4
JOUR 221	Graphics of Comm.	5
JOUR 231	News Writing	4
JOUR 411	Newspaper and Communication Law	3
THAR 150	Viewing Performance	2

#### Select two of the following:

ENG 201	Critical Appr. to Fiction	4
ENG 202	Critical Appr. to Poetry	4
ENG 203	Critical Appr. to Drama	4

#### Select one of the following:

ENG 301	Shakespeare: Histories	4
ENG 302	Shakespeare: Comedies	4
ENG 303	Shakespeare: Tragedies	4

#### Select one of the following:

ENG 311	English Lit. to 1500	4
ENG 312	English Lit. 1500–1660	4
ENG 313	English Lit. 1660–1800	4

#### Select one of the following:

ENG 314	English Lit. 1800–1900	4
ENG 315	English Lit. 1900–Present	4

#### Select one of the following:

ENG 321	Amer. Lit. to 1865	4
ENG 322	Amer. Lit. 1865–1918	4
ENG 323	Amer. Lit. 1918–Present	4

#### Select one of the following:

ENG 327	African-Amer. Fiction	4
ENG 328	African-Amer. Poetry	4
ENG 329	African-Amer. Drama	4

## Integrated Mathematics

### Major code BS6307

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated mathematics, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional high school license that qualifies you to teach integrated mathematics in grades 7–12 inclusive.

#### Methods Course

MATH 320L Teaching of Math in Secondary School 5

Adolescent-young adult education professional and general education requirements must be completed.

#### Major Requirements: 56

MATH 150	Finite Math	4
MATH 211	Elem. Linear Algebra	4
MATH 250	Intro to Prob. and Stats. I	4
MATH 251	Intro to Prob. and Stats. II	4
MATH 263 A, B, C, D	Calculus	16
MATH 300	History of Mathematics	4
MATH 306	Found. of Mathematics	4
MATH 307	Intro to Number Theory	4
MATH 314	Elem. Abstract Algebra	4
MATH 330A, B	Found. of Geometry	8

## Integrated Science

### Major code BS6309

Regardless of the college or university from which you graduate, if you wish to be licensed through Ohio University to teach integrated science as the major field, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated science in grades 7–12 and high school core science courses.

You must complete adolescent-young adult education professional and general education requirements in addition to the major requirements. Information about these requirements is available in Student Services, McCracken 124.

#### Methods Course

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

#### Major Requirements: 117-118

BIOS 100	The Animal Kingdom	4
BIOS 103	Human Biology	5
BIOS 220	Conservation and Biodiversity	4
BIOS 221	Basic Microbiology	4
BIOS 302	Human Anatomy for Nonmajors	6
CHEM 121, 122, 123	Prin. of Chemistry	12
GEOG 202 or GEOG 302*	Weather Meteorology	5
GEOG 315 or GEOL 330	Landforms and Landscapes Prin. of Geomorphology	5
GEOL 101	Intro to Geology	5
GEOL 120	The Mobile Earth	4
GEOL 205 or GEOG 271 or PSY 120 or MATH 250	Statistical Meth. in Geol. Intro to Stats. in Geog. Elem. Stat. Reasoning Intro to Prob. and Stats. I	4 or 5 or 4
GEOL 211	Intro to Oceanography	4
GEOL 255	Historical Geology	4

GEOL 312	Earth Materials and Resources	5
MATH 113	Algebra	5
MATH 115	Pre-Calculus	5
PBIO 103	Plants and People	4
PBIO 114	Cell. Foundations of PBIO	5
PHIL 216	Phil. of Science Survey	3
PHYS 201, 202, 203	Intro to Physics	15
PSC 100D or PSC 100	Moons and Planets: The Solar System Survey of Astronomy	4

\*Request permission from the geography department to substitute GEOL 101 as a prereq.

#### Recommended Tier III:

T3 470C	Chemicals: Health and Environment	4
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## Integrated Social Studies

### Major code BS6308

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach integrated social studies, you must complete the following program and earn passing scores on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach integrated social studies in grades 7–12 inclusive.

#### Methods Course

EDSE 479 Teaching. Social Science in Jr. and Sr. HS 4

Adolescent-young adult education professional and general education requirements must be completed.

#### Major Requirements: 94

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
GEOG 101	Physical Geography	5
GEOG 121	Human Geography	4
HIST 101 or HIST 121	Western Civ in Modern Times Western Heritage: Class. Age	4
HIST 102 or HIST 122	Western Civilization in Modern Times Western Heritage: Medieval Legacy	4
HIST 133	Intro to Non-West/Cultural.	4
HIST 200	American History to 1865	4
HIST 201	Am. Hist. 1865-present	4
HIST 317A	Ohio History to 1851	4
HIST 317B	Ohio History Since 1851	4
HIST 323A	Latin American History: The Colonial Era	4
HIST 329B or HIST 329C	Ancient Greece Ancient Rome	4
POLS 101	American National Govt.	4
POLS 102	Issues in American Politics	4
POLS 230	Comparative Politics	4
POLS 250	International Relations	4
POLS 304	State Politics	4
POLS 320	Urban Politics	4
POLS 301	The Politics of Law	4
POLS 405	American Political Parties	4
PSY 120	Elem. Stat. Reasoning	4
SOC 101	Intro to Sociology	5

## Physical Science (Chemistry and Physics)

### Major code BS6310

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach physics and chemistry as major fields, you must complete the following program and earn passing scores

on the Praxis II exams. The program prepares you for a two-year provisional license that qualifies you to teach physics and chemistry in grades 7–12 inclusive.

See also the integrated science major in this section.

#### Methods Courses

EDSE 440	Secondary School Science Methods	4
EDSE 440L	Secondary School Science Teaching Lab	1

Adolescent-young adult education professional and general education requirements must be completed.

#### Major Requirements: 103–104

CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 241	Quantitative Analysis	4
CHEM 242	Quantitative Analysis Lab	1
CHEM 325	Instrumental Methods of Analysis	4
CHEM 476	Modern Inorganic Chem.	4
CHEM 489	Basic Biochemistry	4
GEOL 101	Intro to Geology	5
GEOL 255 or GEOL 221	Historical Geology Earth and Life History	4
MATH 263A, B, C	Calculus	12
MATH 340	Differential Equations	4
MATH 250 or PSY 120	Intro to Prob. and Stats. I Elem. Stat. Reasoning	4
PBIO 114 or BIOS 170	Cell. Foundations of PBIO Intro to Zoology	5 or 5
PHIL 216	Philosophy of Science	3
PHYS 251, 252, 253	General Physics	15
PHYS 254	Contemporary Physics	3
PHYS 272, 273	Electronics Lab	4
PHYS 311, 312	Mechanics	8

#### Recommended Tier III:

T3 415A or T3 450B or T3 450C	Entropy and Hum. Activity Technology and Culture Society and New Tech.	4
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## Multi-Age Education Programs

The following professional and general requirements apply to all multi-age education majors. Individual majors (Visual Arts, Modern Languages, Music, and Physical Education) are listed in the following pages.

#### Professional Requirements

##### for Multi-Age Programs: 34 hrs. min.

The following courses must be completed with a 2.75 g.p.a. and no grade below a C.

The following three courses are to be taken together as a block:

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Student Dev.	2
EDCT 203	Technological Appl. in Education	4
EDCS 301	Cultural Diversity and Education	4
EDTE 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Secondary School Teaching and Learning	5

\*Multi-age physical education majors have a different set of general education requirements which are listed with physical education methods and major requirements.

#### Student Teaching

EDPL 461 and 463	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These three courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. For example, if you plan to student teach during any of the three quarters of the 2005–2006 school year, apply by December 1, 2004. For further information contact Student Services, McCracken 124.

#### Required General Education Courses (45 hours)

In addition to the following program requirements, you also must complete Ohio University's General Education Requirements. Consult with your advisor to plan a course of study that will meet both sets of requirements.

You must meet departmental prerequisites for all classes if you are seeking licensure. For example, you must take and pass PSY 101 with a minimum grade of C before taking any 200 level education course.

If the courses in each field do not add up to a total of 45 hours, you must elect sufficient hours in one or a combination of the following areas to bring the total hours in general education courses to 45 hours.

If your major is the same as one of the areas below, 10 hours of the major may be counted toward the corresponding general education field as well as the major. For example, if your major is integrated language arts, 10 hours of English may count toward the 45-hour total of general education courses and toward Field 4, below, which is English and/or Foreign Language.

No more than six hours of PED activity courses may be counted toward the degree except for majors in physical education, and none may count toward general education.

#### Science and Mathematics

You are required to complete at least one course in science and one course in mathematics. Appropriate science courses are astronomy, chemistry, physics, plant biology, biological science, physical science, geological sciences, and PSY 226, 312, and 314. Any course in the Department of Mathematics, except 101, 102, or 320L, is acceptable for the mathematics requirement. Also, all Tier I quantitative skills courses count toward the mathematics requirement. Computer science courses do not satisfy this requirement.

#### Interdisciplinary Arts and/or Philosophy

You are required to complete at least two courses in this area. The two courses need not be in one field. Possibilities include any courses in the Department of Philosophy (except PHIL 120) or School of Interdisciplinary Arts; HUM 107, 108, 109, 307, 308, and 309; theater history courses; Art History; Art except for ART 360, 461, 461L, 462; School of Music courses except for music education courses, music therapy courses, and the one- or two-hour participation courses.

#### Social Sciences

You are required to complete at least two courses in social sciences. The two courses need not be in the same field. PSY 101, which is required, is included as one of the social sciences courses. Other possibilities include any course in anthropology, economics, history, political science, sociology, social work, geography, and psychology, except PSY 120, 226, 275, 312, and 314.

#### English and Speech

You are required to complete at least three courses in English and speech. Freshman and junior English composition are required courses taken to satisfy the University English composition requirement (see General Education Requirements section) and will be used toward completion of these hours.

## Visual Arts

#### Major code BS6201

Regardless of the college of the University from which you graduate, to achieve licensure through Ohio University to teach art you must complete the following program and earn passing scores on the Praxis II exams. This program

leads to a two-year provisional license in art, allowing you to teach art in grades Pre-K–12 inclusive.

To become an art education major, you must complete ART 260 (recommended spring quarter of freshman year or fall of sophomore year) with a grade of B or better and have a minimum g.p.a. of 2.75.

The foundations program (ART 110, 112, 113, 116, 117, 118, 211, 251 or 255) must also be completed for admission to the Art Education degree program.

If you are interested in majoring in art education, you are encouraged to meet with advisors in both the College of Education and the School of Art during your first year.

#### Methods Courses

ART 461*	Teaching Art in the Elementary School	6
ART 462*	Teaching Art in the Secondary School	4

Multi-age art education professional and general requirements must also be completed.

#### Major Requirements

ART 110	Seeing and Knowing in the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process & Synthesis	4
ART 211	Studio Concepts	4
ART 260*	Found. of Art Education	4

#### Studio Courses

Forty (40) hours of studio courses must be completed: A 15 hour concentration in one studio area of courses at the 200 level and above, and 25 hours in at least three other studio areas.

#### Art History Courses

Select three courses from:		
AH 211, 212, 213 or 214		12
Elective in AH (at the 300-400 level)		(4)

## Modern Languages

### French — Major code BS6232

### Spanish — Major Code BS6235

### German — Major Code BS6233

Regardless of the college of the university from which you graduate, to be licensed through Ohio University to teach one of the modern foreign languages you must complete the following program and earn passing scores on the Praxis II exams. This program prepares you for licensure to teach French, German, or Spanish in grades Pre-K–12. You will be required to pass an oral proficiency examination in the major before licensure.

You should meet regularly with faculty members in the Department of Modern Languages.

#### Methods Courses

ML 410	Language Lab	4
ML 435	Teaching Modern Languages in Elem. Sch.	4
ML 445	Teaching of Modern Foreign Languages	4

Adolescent-young adult education professional and general education requirements must be completed.

#### Major Requirements—French: 68

FR 111, 112, 113	Beginning	12
FR 211, 212, 213	Intermediate	12
FR 341, 342, 343	Adv. Conv. and Comp.	12

FR 348 or 349	Civ. and Culture	4
FR 354	Intro to French Lit.	4
Choose two courses from:		
FR 345, 355, and 356	Literature	8
FR 437	Phonetics	4
FR 439 or FR 441	Modern Usage Stylistics	4

Additional electives at 400 level or above 8

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

#### Major Requirements—Spanish: 68

SPAN 111, 112, 113	Beginning	12
SPAN 211, 212, 213	Intermediate	12
SPAN 341, 343	Adv. Conv. and Comp.	8
SPAN 348	Civ. and Culture	4

One course from SPAN 349, 350, 351, 352 4

Two courses from SPAN 345, 354, 355, or 356 Intro to Literature 8

Three courses from the following, with at least one in each area: 12

Spanish Linguistics:  
SPAN 437, 438, 439, 441

Spanish American Content:  
SPAN 443, 444, 447, 448

Spanish Content:  
SPAN 425, 427, 429, 432, 453, 454, 455, 458

Additional elective at 400 level or above 8

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

#### Major Requirements—German: 64

GER 111, 112, 113	Beginning	12
GER 211, 212, 213	Intermediate	12
GER 341, 342, 343	Adv. Conv. and Comp.	12
GER 348 or 349	Civ. and Culture	4
GER 355 or 356	Intro to Literature	4
GER 439	Modern Usage	4
GER 441	Stylistics	4

Additional electives at 400 level or above 12

56 hours are required for students who place into 211; 48 hours are required for students who place into 341.

Study abroad is highly recommended.

## Music Education

### Choral Emphasis — Major code BS6242

### Instrumental Emphasis — Major Code BS6241

Regardless of the college of the university from which you graduate, if you wish to be licensed through Ohio University to teach music, you must complete one of the following programs and earn passing scores on the Praxis II exams. An audition is required for admission to Music Education. The program prepares you for a two-year provisional special field license that qualifies you to teach music in grades Pre-K–12 inclusive.

#### Music Education - Choral Emphasis

##### Methods Courses

MUS 364	Secondary School Vocal Techniques	3
MUS 366	Teaching of Music in the Elementary Grades	3
MUS 366B	Early Childhood Music Ed	3
MUS 468	Gen. Music in Jr. HS	3

Multi-age music education professional and general education requirements must also be completed.

**Major Requirements: 127 min.**

Major Instrument (9 quarters. See music handbook)	18
Minor Instrument (9 quarters. See music handbook)	18
Major Performing Groups (min. one per quarter)	22
MUS 090 Performance Lab (9 qtrs)	
MUS 101 Music Theory I	3
MUS 102 Music Theory II	3
MUS 103 Music Theory III	3
MUS 104 Dictation and Sight Singing I	1
MUS 105 Dictation and Sight Singing II	1
MUS 106 Dictation and Sight Singing III	1
MUS 125 Intro. to Music History & Lit.	4
MUS 163 Intro. to Music Ed.	2
MUS 178 Computer Skills for Musicians	2
MUS 179 Technology for Music Ed.	2
MUS 182 Recreational Music Instruments and Materials	3
MUS 201 Music Theory IV	3
MUS 202 Music Theory V	3
MUS 203 Music Theory VI	3
MUS 204 Dictation & Sight Singing IV	2
MUS 205 Dictation & Sight Singing V	2
MUS 206 Dictation & Sight Singing VI	2
MUS 261A or MUS 261B Upper Strings Methods & Mat. Lower Strings Methods & Mat.2	2
MUS 263A Percussion Methods & Mat.	2
MUS 263E Trumpet Methods & Materials	2
MUS 263I Clarinet Methods & Materials	2
MUS 321 History and Lit. of Music	3
MUS 322 History and Lit. of Music	3
MUS 323 History and Lit. of Music	3
MUS 455 Basic Conducting	3
MUS 456B Choral Conducting	3
MUS 458D Vocal Pedagogy	2
Music Theory Elective	3

**Music Education - Instrumental Emphasis****Methods Courses**

MUS 362 Teaching Inst. Music in Elem/Middle School	3
MUS 362L Teaching Inst. Music in Elem/Middle Lab	1
MUS 363 Secondary School Instrumental Methods and Mat.	3
MUS 464 Marching Band Techniques	2
MUS 465 Jazz Ensemble Methods	2

**Choose one course from:**

MUS 366 Teaching of Music in Elem. Grades	3
MUS 366A Intro. to Orff Schulwerk	2
MUS 366B Early Childhood Music Ed	3
MUS 462 General Music in Junior High School	3

Multi-age music education professional and general education requirements must also be completed

**Major Requirements: 128 min.**

Major Instrument (9 quarters. See music handbook)	18
Minor Instrument (6 quarters. See music handbook)	12
Major Performing Groups (min. one per quarter)	22
MUS 090 Performance Lab (9 qtrs)	
MUS 101 Music Theory I	4
MUS 102 Music Theory II	4
MUS 103 Music Theory III	4
MUS 104 Dictation and Sight Singing I	1
MUS 105 Dictation and Sight Singing II	1
MUS 106 Dictation and Sight Singing III	1

MUS 125 Intro to Music History & Lit.	4
MUS 147 Class Voice	2
MUS 148 Class Voice	2
MUS 163 Intro to Music Education	2
MUS 178 Computer Skills for Musicians	2
MUS 179 Technology for Music Ed.	2
MUS 201 Music Theory IV	3
MUS 202 Music Theory V	3
MUS 203 Music Theory VI	3
MUS 204 Dictation & Sight Singing IV	2
MUS 205 Dictation & Sight Singing V	2
MUS 206 Dictation & Sight Singing VI	2
MUS 261A Upper String Methods and Materials	2
MUS 261B Lower String Methods and Materials	2
MUS 263A-K Wind Methods (2 hours each)	10
MUS 304 Instrumentation	3
MUS 321 History and Lit. of Music	3
MUS 322 History and Lit. of Music	3
MUS 323 History and Lit. of Music	3
MUS 455 Basic Conducting	3
MUS 456A Instrumental Conducting	3

**Physical Education****Major code BS6312**

Regardless of the college of the university from which you graduate, to achieve licensure through Ohio University to teach physical education, you must complete the following program and earn passing scores on the Praxis II exams. This program leads to a two-year provisional license in physical education allowing you to teach physical education in grades Pre-K-12 inclusive.

If you are interested in majoring in physical education, you are encouraged to meet with advisors in both the College of Education and the School of Recreation and Sports Sciences in the College of Health and Human Services. These courses are offered in a yearly sequence, so pay close attention when you are scheduling.

**Required General Education Courses**

You are required to fulfill Ohio University's general education requirements (Tier I, II, III). Note that some courses in the teaching field simultaneously fulfill Tier II requirements, such as:

BIOS 302's prerequisite of BIOS 103 or BIOL 101 fulfill Tier II Natural Science and Math;

HCCF 160 fulfills Tier II Social Sciences;

HLTH 202 fulfills Tier II Applied Science and Technology.

Admission to professional education requires that you complete the following courses with a grade of C or better in each:

PSY 101 General Psychology	5
COMS 103 Fundamentals of Public Speaking	4
Tier I Math	
Tier I English	

**Methods Courses**

All courses must be completed with a grade of C or better.

PESS 310 Prin., Theories, & Methods of Teaching Early Childhood Physical Education	6
PESS 330 Prin., Theories, & Methods of Teaching Middle Childhood Physical Education	6
PESS 370 Prin., Theories, & Methods of Teaching Adol. & Young Adult Physical Education	6

Multi-age physical education professional requirements must also be completed

**Major Requirements: 65 min.**

All courses must be completed with a grade of C or better.

**Professional Core: 14 hours**

PESS 125	Human Movement & Fitness Perspectives	4
PESS 202	Intro. to Teaching Phys. Ed.	3
PESS 227	First Aid: Workplace training	3
HLTH 202	Health Sciences & Lifestyle Choices	4
PESS 204	Hist. and Prin. of Phys. Ed.	4
PESS 205	Movement Skills, Rhythms, & Dance in Phys. Ed.	3
PESS 212	Intro to Coaching	3
PESS 240A	Sports & Games I	3
PESS 240B	Sports & Games II	3
PESS 302	Biomechanics	4
PESS 333	Adapted Phys. Ed.	4
PESS 345	Intro to Exercise Physiology	4
PESS 405	Motor Learning	4
PESS 409	Assessment in PE & Sport	4
BIOS 301 or BIOS 302	Human Anatomy for Majors Human Anat. for Non-majors	6
HCCF 160	Intro. to Child Development	4
REC 291	Outdoor Pursuits	3

**Aquatics requirement: select one of the following courses (2-3 hours):**

PESS 104	Intermediate Swimming	2
or PESS 218	Lifeguard Training	
or PESS 220	Water Safety for Instructors or 3	

**Special Education-Intervention Specialist Programs K-12**

To receive a B.S.Ed. in Special Education and licensure as an Intervention Specialist, you must complete one of the professional preparation programs for teaching students with special needs and receive passing scores on the Praxis II exams. Students should also consult the Special Education program sheets (available on the Web) and meet with their advisor about scheduling as early as possible.

Students who seek admission into Special Education courses will be subject to additional selective admission criteria beyond the College of Education's Selective Admission and Retention requirements. Enrollment in these programs is limited to promote quality instruction, appropriate field placement, and effective advising. The selective admission process into Special Education includes application for admission to Professional Education, review of your academic record, and your autobiography. Admission applications are available from the Student Services Office, McCracken Hall 124. Applications should be submitted for review the third quarter of your freshman year, or soon thereafter. The application deadline is April 15, to allow for review of applications prior to Fall Quarter pre-registration.

Specific information about programs in hearing and speech is included under the College of Health and Human Services section of this catalog.

**Special Education-Intervention Specialist:****Mild-Moderate Educational Needs****Major code BS6316****Required General Education Courses****Humanities: 8**

Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

**Natural Sciences: 5**

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

**Social Science: 8**

Eight hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

**Psychology: 9**

PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Stat. Reasoning Stat. for Behavioral Sciences	4 or 5

**Communications: 4**

COMS 103	Fund. of Public Speaking	4
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**English: 9**

ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4

**Fine Arts: 3**

ART 360A or MUS 160 or MUS 282 or REC 251 or THAR 113	Art for Elementary Teachers Music Fundamentals Music Therapy Activities Art & Nature Crafts Acting Fundamentals	3 or 4
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**Health: 4**

HLTH 202	Health Sciences & Lifestyle	4
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**Hearing and Speech Therapy: 5**

HSS 108	Intro to Comm. Disorders	5
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**Math: 8**

MATH 120*	Elem. Topics in Math	4
MATH 121	Elem. Topics in Math	4

\*Math 120 is recommended; however, any 4-hour math course numbered 120 or above is acceptable.

**Physical Education & Recreation for Students with Disabilities: 4**

PESS 335	Adapted Physical Education for Special Education	4
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**TIER III: 4**

Any Tier III synthesis course is acceptable.

You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

**Major Requirements**

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

**Education: 15**

EDTE 301	Cultural Diversity and Education	4
EDTE 400	School, Society, and the Professional Educator	4
EDEC 330	Teaching Math to Young Children	3
EDEC 330L	Field/Clinical in Teaching Math	1
EDSP 355	Technical Apps. in Special Education	4

**Reading Core : 18**

EDTE 220	Phonics & Struc. of Lang.	5
EDTE 325	Lit. Centered Reading Inst.	5
EDTE 420	Reading in the Content Area	4
EDTE 421	Reading Diagnosis & Assessment	4

**Block I (sophomore year, fall or winter quarter): 15**

(The first three of the following courses must be taken concurrently)

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Nature of Learners with Exceptionalities	3
EDTE 202	Field Experience in Typical and Exceptional Development	2
EDCI 203	Technological Applications in Education	4

**Block II (junior year, fall quarter): 18**

EDSP 260	Field Exp. with Special Education Needs	4
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EDSP 373	Curr. Plan for Learners with Special Needs	4
EDSP 374	Learners with Mild-Mod. Educational Needs	5
EDTE 325*	Literature Centered Reading Instruction	5

\*Reading requirement.

**Block III (junior year, winter quarter): 16**

EDSP 360	Field Exp. with Mild-Mod. Educational Needs	4
EDSP 370	Classroom Management	4
EDSP 377	Career Dev., Tran. for Special Needs	4
EDSP 485	Diag. & Eval. of Children with Disabilities	4

**Block IV (junior year, spring quarter): 17**

EDSP 460	Field Exp. with Mild-Mod. Educational Needs	4
EDSP 376	Methods for Learners with Mild-Mod. Needs	5
EDSP 401	Interventions for Emot. Behavior Needs	4
EDSP 477	Collaborate and Consult in Special Education	4

**Professional Laboratory Experience (senior year): 16**

EDPL 461, 462	Student Teaching	13
EDPSL 465	Student Teaching Semester	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1 of the year prior to the year in which you plan to student teach. You must complete all education courses before you may student teach. For further information, contact the Office of Student Services, McCracken Hall 124.

**Special Education-Intervention Specialist:  
Moderate to Intensive Educational Needs  
Major code B56317**

**Required General Education Courses**

**Humanities: 8**

Eight hours of humanities are required. Select from courses which meet the Tier II Humanities and Fine Arts requirements.

**Natural Sciences: 5**

Five hours of natural sciences containing a laboratory component are required. Select courses in natural science which meet Tier II Natural Sciences and Mathematics requirement.

**Social Science: 8**

Eight hours of social sciences are required. Select from courses which meet the Tier II Social Sciences requirement.

**Psychology: 9**

PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Stat. Reasoning Statistics for Behavioral Sciences	4 or 5

**Communications: 4**

COMS 103	Fund. of Public Speaking	4
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**English: 9**

ENG 151-153	Freshman Composition	5
ENG 305J-308J	Junior Composition	4

**Fine Arts: 3**

ART 360A or MUS 160 or MUS 282 or PEC 251 or THAR 113	Art for Elem. Teachers Music Fundamentals Music Therapy Activities Art & Nature Crafts Acting Fundamentals	3 or 4
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**Health: 7**

HLTH 202	Health Sciences and Lifestyle	4
PESS 227	First Aid	3

**Hearing and Speech Therapy: 9**

HSS 108	Intro to Comm. Disorders	5
HSS 278	Sign Language	4

Math: 4

MATH 120*	Elem. Topics in Math	4
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\*Math 120 is recommended, however, any 4 hour math course numbered 120 or above is acceptable.

**Physical Education & Recreation for Handicapped: 4**

PESS 335	Adapted Physical Education for Special Education	4
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**TIER III: 4**

Any Tier III synthesis course is acceptable.

You must also complete Ohio University's General Education Requirements. Consult with your advisor to plan to meet both sets of requirements.

**Minor Area of Concentration: 12**

A 2.75 g.p.a. is required in the minor courses. Common minors include: art, early childhood, human and consumer sciences, music, physical education, political science, psychology, recreation therapy, residential services, vocational adult services, social work, sociology, hearing and speech sciences. Courses taken to complete General Education Requirements may not apply toward the minor area of concentration.

**Major Requirements**

All students pursuing teacher education programs at Ohio University are subject to Selective Admission and Retention Requirements prior to taking any education courses.

**Education: 15**

EDTE 301	Cultural Diversity and Education	3
EDTE 400	School, Society, and the Professional Educator	4
EDEC 330	Teaching Math to Young Children	3
EDEC 330L	Field/Clinical in Teach. Math	1
EDSP 355	Technical Applications in Special Education	4

**Reading Core: 18**

EDTE 220	Phonics and Structure of Language	5
EDTE 325	Lit. Centered Reading Inst.	5
EDTE 420	Diagnosis of Reading Diff.	5
EDTE 421	Reading Laboratory Pract.	4

**Block I (sophomore year, any quarter): 15**

(The first three of the following courses must be taken concurrently)

EDTE 200	Learning, Human Growth, and Development	6
EDTE 201	Nature of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Typical and Exceptional Development	2
EDCT 203	Technological Applications in Education	4

**Block II (junior year, fall quarter): 18**

EDSP 260	Field Exp. with Special Education Needs	4
EDSP 373	Curr. Plan for Learners with Special Needs	4
EDSP 473	Learners with Mod.-Int. Education Needs	5
EDTE 325*	Literature-Centered Reading Instruction	5

\*Reading requirement.

**Block III (junior year, winter quarter): 16**

EDSP 361	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 370	Classroom Management	4
EDSP 377	Career Dev. and Tran. for Special Needs	4
EDSP 485	Diag. & Eval. of Children with Disabilities	4

**Block IV (junior year, spring quarter): 17**

EDSP 461	Field Exp. with Mod.-Int. Educational Needs	4
EDSP 475	Methods for Learners with Mod.-Int. Educational Needs	5
EDSP 401	Interventions for Emot. Beh. Needs	4
EDSP 477	Collaborate & Consult in Special Education	4

**Professional Laboratory Experience (senior year): 16**

EDPL 461 and 462	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3

These courses are taken concurrently in one quarter and constitute the student teaching requirement. Apply for student teaching by December 1st of the year prior to the year in which you plan to student teach. You must complete all education courses before you may student teach. For further information contact the Office of Student Services, McCracken Hall 124.

# Russ College of Engineering and Technology

**Stocker Center**

**Dennis Irwin**  
*Dean*

**Jerrel R. Mitchell**  
*Senior Associate Dean  
for Research and Graduate Studies*

**Kendree J. Sampson**  
*Associate Dean for Academics*

**Marty North**  
*Assistant Dean for Career and  
Outreach Programs*

**Mark L. Carter**  
*Assistant Dean for Development*

The Fritz J. and Dolores H. Russ College of Engineering and Technology offers degree programs through the School of Electrical Engineering and Computer Science and the Departments of Chemical Engineering, Civil Engineering, Industrial and Manufacturing Systems Engineering, Mechanical Engineering, Aviation, and Industrial Technology. Engineering curricula are focused on the engineering profession, in which a knowledge of the mathematical and natural sciences—gained by study and experience—is applied to develop ways to use economically the materials and forces of nature for the benefit of society and the environment. Graduates have both the theoretical and practical training to begin a professional career or continue advanced work at the graduate level. Program flexibility is provided through technical electives so students can concentrate their studies in a chosen area or use the electives in other areas.

Education and University-based research and development in engineering and technology are vital to the future. Today's students are preparing for careers in some of the most exciting, promising, and critical of all modern undertakings. During the past 18 years, the Russ College of Engineering and Technology has accelerated toward the forefront in providing the leadership required to meet such challenges. Within its framework, aggressive learners can acquire the specific knowledge for a successful career, and individual talents can be adapted to preferences among the college's eight undergraduate programs.

The Russ College of Engineering and Technology was originally founded in 1935 as the College of Applied Sciences, but its origins date back to the earliest history of Ohio University; records show that surveying was among the first courses offered. The first engineering degree was granted in 1902. In 1985 the college moved into the C. Paul and Beth K. Stocker Engineering and Technology Center, and the Francis J. Fuller Aviation Training Center and Avionics Engineering Center hangar were completed in 1989.

In 1994, the college was renamed the Fritz J. and Dolores H. Russ College of Engineering and Technology and an 18,000-square-foot addition to Stocker Center was completed, providing additional laboratory space for undergraduate and graduate study and for multidisciplinary research. In 1996 the Konneker Research Laboratory was opened for expanded research in biotechnology. Two new facilities recently opened, one for advanced pavement research and one for advanced research in corrosion.

In 1996 the Board of Trustees established the Robe Leadership Institute in the Russ College to promote and encourage effective leadership among the students, faculty, and administrators. Currently, a Leadership Seminar in Engineering is available to seniors and graduate students in the College together with a Leadership Resource Center, named after Gerald Loehr, for materials and references on leadership. The institute sponsors leadership awards for students, faculty, and staff of the college.

All engineering programs are accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology (ABET), 111 Market Place, Suite 1050, Baltimore MD, 21202-4015—telephone: (410) 347-7700. The computer science program is accredited by the Computing Accreditation Commission of ABET.

The industrial technology program is accredited by the National Association of Industrial Technology, and the aviation curriculum is approved by the Federal Aviation Administration.

## Admission to Engineering and Technology Programs

Upon admission to Ohio University, an entering freshman who has an objective of obtaining a degree in engineering, computer science, aviation, or industrial technology may request direct entry into the Russ College of Engineering and Technology. In addition to the general requirements for admission to Ohio University, there are special requirements for all applicants seeking admission to one of the engineering or computer science degree programs.

In general, direct entry into an engineering or computer science degree program of the Russ College of Engineering and Technology depends upon your qualifications and preparation. The criteria listed below are the minimum preparation recommended for all engineering and computer science degree programs. However, when other considerations tend to discount low academic grades or college aptitude test scores, direct entrance may be requested if there is other persuasive evidence of both the capability and motivation to successfully undertake an engineering or computer science program.

The industrial technology curriculum combines courses in general education, math and computer science, physical science, and management with hands-on manufacturing courses to prepare graduates for technical/management positions in manufacturing industries. You may request direct entry into the industrial technology program. There are no admission requirements above the general University requirements.

The aviation curriculum prepares students for a variety of positions as professionals in the increasingly complex national aviation system. You may request direct entry into the aviation program. There are no admission requirements beyond the general University requirements.

## Freshman Applicants

### Direct Entry into Engineering and Computer Science Programs

Recent high school graduates, or transfer students who have earned fewer than 30 quarter hours (or 20 semester hours) of credit at Ohio University or another accredited collegiate institution, seeking direct entry admission to the Russ College of Engineering and Technology should have a minimum composite score of 24 ACT or 1100 (recentered) SAT. Applicants not meeting either of these two criteria, but with a good high school academic record that includes four years of mathematics, four years of English, and one year each of physics and chemistry, may also apply for direct entry into the college. Students with a strong background in mathematics and science may be admitted with one unit of chemistry or physics, with the missing area to be completed during the first year

### Applicants Not Having Minimum Preparation for Direct Entry

If you do not meet the above minimum preparations, you may enter the pre-engineering program in University College to develop your abilities in the areas of mathematics, chemistry, and English before applying for entry into the Russ College of Engineering and Technology. Following this preparation, entry into the college can be accomplished by earning a grade-point average (g.p.a.) of 2.0 or above in each of the following groups of courses and by meeting a minimum overall g.p.a. of 2.0 on a 4.0 scale.

- 1 MATH 263A, 263B
- 2 CHEM 121, 151, or PHY 251\*
- 3 Freshman English requirement
- 4 ET 280, CHE 101, CS 240A, ME 100, CE 201 or EE 101\*

\* See individual department degree requirements or consult with an engineering faculty advisor.

If you are entering the pre-engineering program in the University College with an intended engineering or computer science major but do not meet minimum preparation for direct entry into Russ College of Engineering and Technology, you will be identified as a pre-engineering major in the University College and will be assigned an engineering or computer science advisor. You may require more than four academic years to complete the degree requirements.

If your record includes mathematics and science courses beyond the above minimum required courses, you will be evaluated on the basis of your accumulative record and upon individual grades in English, mathematics, chemistry, physics, and engineering-related courses that you have completed at the time you apply for admission to the Russ College of Engineering and Technology.

### Applicants From Another Country

Admission of applicants from other countries will be based on official transcripts, pertinent documentation of all secondary and postsecondary work, and other evidence as required by the University and Russ College of Engineering and Technology.

Evaluation of work and admission of applicants will be performed by

the university examiner and the Russ College of Engineering and Technology.

Applicants from foreign countries must meet the criteria given in this catalog under "International Applicant" in the Admissions section.

## Transfer Students

Qualified transfer students are accepted within the guidelines that follow. Your application will be considered on an individual basis, and entrance into the Russ College of Engineering and Technology will be based on your qualifications. Transfer credits applicable to engineering and technology degrees are determined by the college and the program department.

You must earn a minimum of 36 quarter hours at Ohio University, applicable toward your degree, after transferring into one of the college's degree programs.

If you have earned fewer than 30 quarter hours of credit, you are required to meet the minimum preparation designated for entering freshmen.

In general, transfer applicants into one of the engineering or computer science programs from other universities and colleges will be evaluated on accumulative g.p.a. on all college work attempted and on individual grades in English, mathematics, chemistry, physics, and engineering-related courses which may have been completed at the time application is made.

Transfer applicants for the industrial technology and aviation programs will be evaluated on accumulative g.p.a. and specific courses completed. Aviation flight students must be evaluated.

If you have left another institution for academic or disciplinary reasons, you will not be considered for admission until after two calendar years following the date from which you were dropped from another university or college.

### Transfer from Other Universities or Colleges Outside Ohio University

Applicants from other accredited collegiate institutions are expected to have the minimum preparation set forth for entering freshmen and to meet the University's transfer policy. If you are eligible to transfer into the University but do not meet the criteria

specified for entering freshmen, you may be considered for admission provided you have met the following criteria: (1) you have demonstrated abilities in mathematics and science by earning a minimum of 2.5 on a 4.0 scale in all mathematics and science courses attempted at the institution from which you are transferring; and (2) your overall g.p.a. is above the acceptable minimum level.

If your credentials are equivalent to those of freshmen who entered University College (see "Freshman Applicants") and you have demonstrated abilities in mathematics, natural science, physical science, and English, you may be admitted to an engineering program.

If you are from a two-year institution following a recognized and accredited University Parallel program, you will be evaluated according to the conditions stated for accredited four-year institutions.

To transfer into one of the engineering degree programs from a two-year institution following an associate's degree program in technology, you must have a minimum g.p.a. of 3.0 on a 4.0 scale and indicated abilities in mathematics and science. Transfer courses will be evaluated to determine their applicability toward degree requirements. In general, ABET prohibits purely technical courses being equated to engineering courses.

Transfer students from other accredited universities or colleges may directly enter the industrial technology program providing they meet all Ohio University admission requirements, including an overall 2.5 g.p.a. After transferring into the industrial technology program, you must earn a minimum of 36 quarter hours of industrial technology credit at Ohio University with at least 24 credit hours at or above the 300 level.

#### **Transfer from Other Colleges Within the University**

To transfer from another college within the University, you are expected to have the same preparation as entering freshmen or to have attained the equivalency of a freshman who entered University College and completed the specified mathematics, natural science, physical science, and English courses (see "Freshman Applicants") with the specified g.p.a.

If you do not meet the above criteria, you will be evaluated on an individual

basis; however, you must have earned a 2.0 average or better on a 4.0 scale in all mathematics and science courses attempted.

#### **Relocating from a Regional Campus**

If you are relocating from a regional campus and have not been admitted to the Russ College of Engineering and Technology as an entering freshman, you are required to meet the same criteria as students transferring from other colleges within Ohio University.

### **Academic Requirements**

#### **Advising and Program Planning**

Indicate your choice of discipline on the official application for admission to the University to assure the assignment of a faculty advisor in the department of your choice. If you have not decided upon a specific major within the college (major code ND0910), the associate dean for academics or the appropriate designate will serve as your advisor until you choose a major. If you are in an engineering or computer science program and have demonstrated abilities in the mathematics and science courses needed for the program you can, with approval of the dean's office, change your major within the college and are eligible to take courses in all colleges of the University.

If you do not request direct entry into the Russ College of Engineering and Technology or do not possess the minimum preparation indicated above, you will be enrolled in the pre-engineering major (major code ND110S) in University College (see the University College section for details). Students enrolled in the pre-engineering major will be advised by a selected number of engineering faculty designated by the associate dean for academics. For further information, contact the various department chairs or the associate dean for academics.

Course requirements for the freshman year in each of the engineering departments within the Russ College of Engineering and Technology are similar. Hence, while it is desirable to indicate a specific major field of study earlier, you can defer a decision on a specific major field of study until the beginning of your sophomore year.

After completing one of the engineering degree programs in the Russ College of Engineering and Technology, you are qualified and

encouraged to seek, by examination, registration as a professional engineer from the Board of Registration for Professional Engineers of the state where you intend to practice. It is to your advantage to take the examination during the spring quarter closest to the expected time of graduation or as soon after graduation as possible.

With careful planning you may, in addition to the Bachelor of Science degree from this college, obtain a second degree or a minor from another college in the University. (See "A Second Bachelor's Degree" in the University-Wide Graduation Requirements section.)

Marietta College and the Russ College of Engineering and Technology at Ohio University have agreed to participate in an alliance that will provide opportunities for students studying at either school to pursue engineering degrees not currently offered at their respective schools. This will be accomplished through a binary program that offers students the opportunity to earn a degree from each institution in disciplines to be formally decided upon by each respective school. See the associate dean for academics for details.

Graduate programs leading to the M.S. degree are available in all of the engineering programs and in computer science. In addition, graduate work leading to the Ph.D. degree is available in chemical engineering, electrical engineering, and an inter-disciplinary program in integrated engineering. These programs are described in detail in the *Graduate Catalog*.

### **Degree Requirements**

As a candidate for a degree in the Russ College of Engineering and Technology, you must satisfy all of the curriculum requirements that are applicable toward a degree in your particular field as specified on the following pages. You must earn a minimum of 36 quarter hours applicable toward your degree after entering one of the degree programs. In addition, you must:

- 1** Have a 2.0 (C) average on all courses attempted which are applicable toward a degree.
- 2** Have a 2.0 (C) average on all courses attempted in the Russ College of Engineering and Technology that are applicable toward a degree.

- 3 Have a 2.0 (C) average on all courses attempted in the major area of study that are applicable toward a degree.
- 4 Successfully complete a course by the end of the third enrollment in that course. "Enrollment" includes classes in which WP or WF grades were earned.

Averages will be computed on final hours and points in repeated courses, if any.

#### **Requirements for Continuing in the College**

Once you are enrolled in the Russ College of Engineering and Technology, you will continue in your program unless there is demonstrated weakness in the mathematics, science, and engineering-related subjects that indicates your inability to meet the academic requirements of the program. The associate dean for academics and department chair will make decisions concerning cases of this nature, and you will be notified accordingly.

In addition to the above overall performance, you must meet the specific requirements listed under "Deficiency Points" and "Retaking Courses."

#### **Deficiency Points**

Once you are enrolled in the Russ College of Engineering and Technology you will continue in your program in a normal manner, provided:

- 1 You maintain an average of 2.0 (C) or better in all hours attempted at Ohio University that are applicable toward a degree.
- 2 You maintain an average of 2.0 (C) or better in all hours attempted in the Russ College of Engineering and Technology that are required for graduation (including technical electives). There are several computer science courses that are not included in the g.p.a. computation.
- 3 You maintain an average of 2.0 (C) or above in all courses attempted in your major area of concentration that are applicable toward the degree. There are several computer science courses that are not included in the g.p.a. computation.

Averages in any of these categories below 2.0 (C) result in deficiency points and probation. If you are on probation or acquire deficiency points in any quarter, your academic record is reviewed by the associate dean for

academics to determine if you may continue in the program. If you are placed on University probation at the end of any quarter, you must earn a minimum of nine quarter hours of credit with a 2.0 (C) or better average in your next quarter of attendance or be dropped from the University. These credits must be in courses directly applicable to the degree requirements.

In the subsequent quarter, if your academic progress is such that you are not eligible to be removed from probation, your academic record will be reviewed to determine if you should be continued. The number of times a continuance may be granted is limited to three; thus, there is an absolute limit of four consecutive quarters on probation. Although the maximum number of times you may be continued on probation is four, if you are on probation you may be dropped at the end of any quarter for poor academic performance.

If you are placed on college or departmental probation at the end of any quarter, you must receive a 2.0 (C) average or better in subsequent quarters in your engineering and technology and/or major courses or you will be dropped from the Russ College of Engineering and Technology. In addition, you normally must remove deficiency points in the engineering and major subjects within two quarters. You should discuss your probation with your academic advisor, departmental chair, and/or the associate dean for academics. If you are dropped from the University or the college, you may appeal by contacting the associate dean for academics.

Normally, a petition for reinstatement will not be considered until 12 months after you are dropped.

#### **Retaking Courses**

As a student in the Russ College of Engineering and Technology, you must succeed in a required program course by the third time you enroll in the course. ("Enroll" means being on the class roster after the fourteenth-day drop date.) If you do not meet this requirement, you will be dropped from your program. Success is a passing grade or, in those courses in which a grade of C or C- is required to continue a sequence, a minimum grade of C or C-.

When you retake a course, only the grade received in the most recent attempt is used to determine your

accumulative g.p.a. You may not retake a course after an advanced course in the same field has been passed if the course that you desire to retake was a prerequisite for the advanced course.

Course Credit by Examination or correspondence may not be used to earn credit in a course required for graduation which you have previously failed.

#### **Tier II Requirements for Aviation (major codes 7258 and 7261) Chemical Engineering (7251), Civil Engineering (7252), Computer Science (7260), Electrical Engineering (7253 and 7254), Industrial and Manufacturing Systems Engineering (7255), and Industrial Technology (7256)**

Students in these programs must meet the Tier II requirements as specified in Graduation Requirements-University Wide section of this catalog. Students should consult with the individual program curricula and with their faculty advisor to ensure these requirements are met.

#### **Social Science and Humanities Requirements for Mechanical Engineering (7257)**

Students in mechanical engineering have humanities and social science requirements that differ from the General Tier requirements. Satisfying the requirements below will automatically satisfy Tier requirements.

Only formal courses are acceptable unless prior approval is given from the dean's office. Courses in selected topics, independent study, etc., are not acceptable without this prior approval. Courses in education, business, or other professional areas, or courses that are remedial or skills oriented, are not acceptable. Without prior approval from the dean's office, courses not on this list will not apply towards the humanities and social sciences requirements for the Russ College of Engineering and Technology.

You must have at least 24 hours total in humanities/social sciences with a minimum of 8 in each category and a sequence or basic/advanced pair in both categories. (A sequence is a pair of courses in the same department in which one is a prerequisite for the other. A basic/advanced pair is a 300- or 400-level course along with a companion course in the same department. The companion need not be a prerequisite for the 300- or 400-level course.)

## Humanities/Social Science Electives for Engineering Degree Students

### Humanities

- a Art (ART 110, 393A)
- b African American Studies (AA5 106, 110, 150, 210, 211, 250, 310, 315, 316, 317, 350, 352, 355, 356)
- c Art History (AH except 350)
- d Classical Archaeology (CLAR 201, 203, 352)
- e Comparative Arts (CA except 360J)
- f Dance (DANC 170, 351, 352, 353, 370, 471, 472, 473)
- g English (ENG 200 level or above, except 280, 305J, 307J, 308J, 350, 353, 361, 362, 363, 393, 394, 395, 451, 452)
- h Film (201, 202, 203)
- i Foreign Language: 200 level or above, may not be your primary language
- j Foreign Literatures in English (CLAS except 227; FL; ML except 250A-C)
- k Great Books (HUM 107, 108, 109, 117, or 307, 308, 309)
- l History (HIST 121, 122, 123, 314A-F, 328, 329A-C, 330, 351, 352, 353A-B, 354, 356A-C, 357, 370, 389)
- m History of Theater (THAR 270, 271, 272)
- n Music History and Literature (MUS 120, 124, 125, 321, 322, 323, 421A-G, 427, 428)
- o Philosophy (PHIL except 120, 320, 360J, 417, 425, 426, 427)
- p Women's Studies (WS 100, 200, 250A)

### Social Science

- a African American Studies (AA5 101, 135, 202, 220, 225, 235, 254, 340, 341, 345, 360, 364, 368, 370, 380, 430, 432, 440, 460, 482)
- b Anthropology (ANTH except 201, 356J, 378, 492, 494B, 494D, 496)
- c Economics (ECON except 300, 381, 385, 482)
- d Engineering and Technology (ET 320, 350)
- e Geography (GEOG 121, 131, 132, 201, 220, 232, 233, 234, 321, 322, 325, 326, 330, 331, 332, 335, 338, 427, 455)
- f History (HIST except 301J, 396J, 496, and those listed in k. under humanities)
- g International Studies (INST 103, 113, 118, 121, 350)
- h Linguistics (LING except 410, 445, 451, 452, 453, 460, 480, 481, 482, 483)
- i Political Science (POLS except 305J, 482, 483)
- j Psychology (PSY except 120, 121, 221, 226, 275, 312, 314, 315, 321, 327, 341, 351)
- k Social Work (SW except 190, 380, 381, 383, 385, 490A-C)
- l Sociology (SOC except 351, 352, 356J, 450)
- m Women's Studies 400

### English Requirement

In addition to the curricular requirements as stated on the following pages for departments in engineering and technology, you must also satisfy the University curricular requirements in English.

### Pass/Fail Option

You may elect to take courses on a pass/fail basis within eligibility requirements stated in the Academic Policies and Procedures section.

## Cooperative Education

Cooperative education opportunities and internships are available in the Departments of Chemical Engineering, Civil Engineering, Electrical Engineering and Computer Science, Industrial and Manufacturing Systems Engineering, and Mechanical Engineering, as well as in Industrial Technology. Students participating in cooperative education alternate periods of on-campus study with roughly equal periods of worksite experience according to established schedules. Students may also work back-to-back quarters. If you participate in this plan, you will require more than the

normal four years to complete degree requirements. ABET does not allow cooperative education experiences to replace coursework.

Participation in cooperative education provides valuable career experiences. The alternating work/study periods allow you to integrate classroom theory with practical applications and provide you with opportunities to earn money to assist in financing your education. You can also participate in summer internships.

If you are interested in these programs, contact the assistant dean for career and outreach programs, Stocker 169.

## Technology Fee

The Russ College of Engineering and Technology is committed to providing its students with the most modern computing tools available. To achieve this goal, all students enrolled in the Russ College are charged a quarterly technology fee. This fee is used to continuously upgrade the hardware and software available to all students in the college's computer labs. Full-time students (11-20 credit hours) are billed \$100 per quarter. Students enrolled for fewer than 11 hours are billed at a rate of \$9 per credit hour.

## Financial Aid

In addition to the financial aid program sponsored by the University, the Russ College of Engineering and Technology and its departments have separately funded scholarships. If you are applying for scholarships through University channels, you are considered for both University and college scholarships. The college also has established a student loan fund for upperclass students needing assistance. Information is available in the dean's office, Stocker Center.

## Global Learning Community

For information about the Global Learning Community, refer to "Global Learning Community Certificate Program" in the "University-Wide Academic Opportunities" section.

## Exploratory (Undecided) Engineering Students

### Major code ND0910

Each year a substantial number of new students entering the Russ College of Engineering and Technology do so without a firm commitment to any one of the engineering programs offered by the college. The schedule below is suggested for these students and will meet most of the first-term requirements of all engineering departments. Students should also consult individual program requirements before scheduling to ensure that a course satisfies degree requirements.

### Freshman

Fall		
CHEM 151	General Chem. <sup>2</sup>	5
ET 280	Engr. and Tech.— An Overview <sup>1</sup>	4
MATH 263A	Analytic Geom. and Calc. <sup>2</sup>	4
ENG 151	Freshman English <sup>3</sup>	5

<b>Winter</b>			
CHEM 152	General Chemistry	5	
COMS 103 or IT 101	Fund. of Public Speaking Engr. Graphics Fund. <sup>1</sup>	4 or 3	
MATH 263B	Analytic Geom. and Calc.	4	
TIER II	Elective <sup>4</sup>		
<b>Spring</b>			
CHEM 123 or 153	General Chemistry <sup>1</sup>	4-5	
ET 181	Comp. Methods in Engr. <sup>1</sup>	4	
MATH 263C	Analytic Geom. and Calc.	4	
TIER II	Elective <sup>4</sup>		
<sup>1</sup> See individual program requirements or consult with your faculty advisor for alternatives.			
<sup>2</sup> Math and Chemistry course will depend upon freshman orientation placement exam results.			
<sup>3</sup> Students will take Freshman English in quarter assigned at freshman orientation.			
<sup>4</sup> See Graduation Requirements-University Wide in this catalog for list of courses.			

## Degree Programs

### Aviation

Students in the aviation program can complete their bachelor's degree requirements under either of two options: flight or aviation management. A two-year A.A.S. degree in aviation technology is also available at Ohio University.

The flight option meets the guidelines of the Federal Aviation Administration (FAA) and prepares students for career opportunities in commercial aviation as FAA-certified pilots, aircrew members, and other positions in aviation-related business and industry. An aviation degree provides students with the ability to undertake roles in the national aviation system and to progress to supervisory and managerial positions with necessary leadership and human relations skills. Additionally, this educational background gives graduates the broad knowledge base, perspective, and flexibility to compete in the increasingly technical and automated environment of aviation.

Flight option students are expected to complete each flight course in one quarter. However, in extenuating circumstances (bad weather, etc.) students can, with permission, carry over completion of the course in the following quarter. If you do not complete the requirements in this second quarter, you may be automatically dropped from the program.

Students must maintain a 2.0 overall g.p.a. to enroll in flight courses. Flight option majors must receive a grade of at least a C- (70 %) in AVN 110, AVN 310, AVN 350, and AVN 440. It is possible to substitute elective courses in the curriculum as long as you maintain the minimum total credits for that subject area and obtain prior approval in writing from the department/college.

Flight option majors must take AVN 400, AVN 420, AVN 430, AVN 445, and AVN 455 at Ohio University.

### Bachelor of Science in Aviation—Flight Option Major code B57258

#### General Education Requirements

**General Studies. 38 hours**

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
COMS 101	Fundamentals of Human Communication (2H)	4
COMS 103	Fund. of Public Speaking	4
ENG 305J	Technical Writing (1J)	4
Choose a minimum of 16 hours from the classes below		
ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4
POLS 101	American National Government (2S)	4
GEOG 121	Human Geography (2S)	4
COMS 205	Group Discussion	4
COMS 206	Comm. in Interpersonal Relationships	4
COMS 342	Communication and Persuasion	4
PHIL 101	Fund. of Philosophy (2H)	4
ART 110	Seeing and Knowing the Visual Arts (2H)	4
ENG 200	Intro to Literature (2H)	4

#### Math/Science/Technology: 33 hours

MATH 163A	Calculus (2N)	4
PHYS 201	Intro to Physics (2N)	5
PSY 120	Elementary Statistics	4
GEOG 101	Elements of Physical Geography (2N)	5
GEOG 201	Environmental Geography (2A)	4
GEOG 302	Meteorology	5
GEOG 304	Obs. in Meteorology and Forecasting	2
Choose a minimum of 4 hours from the classes below		
MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
GEOG 405	Forecasting in Meteorology	2

#### Computer Science: 8 hours

CS 120	Computer Literacy	4
Choose a minimum of 4 hours from the courses below		
CS 220	Intro to Computing (1M)	5
CS 230	Computer Programming (2A)	5
MIS 202	Business Info Sys.	4

#### Management and Human Resource Management: 16 hours

MGT 202	Intro to Management (2S)	4
MGT 340	Organizational Behavior	4

Choose a minimum of 8 hours from College of Business courses 200 or above.

General Electives: 4 hours

Tier III: 4 hours

#### Aviation Core Requirements

##### Aviation Core: 24 hours

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

#### Option Requirements

##### Flight Education: 69 hours

AVN 240	Private Pilot Flight	4
AVN 310	Adv. Aeronautics	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Cross Country Flight	4
AVN 350	Instrument Flight Systems and Procedures	4
AVN 400	Instrument Flight	4

AVN 405	Advanced Cross Countries	4
AVN 420	Commercial Flight	4
AVN 430	Multi-Engine Flight	4
AVN 440	Flight Instructor Ground	4
AVN 445	Flight Instructor Flight	4
AVN 475	Aviation Internship	2
AVN 390	Airline Oper. and Mgt.	4
AVN 480	Gen. Aviation Operations and Mgt.	4
AVN 485	Adv. Acft/Flt Crew Ops	5
AVN 489	Transition to Aviation Industry	2
IT 220	Aircraft Powerplants	4

Choose a minimum of 4 hours from:

AVN 410	Fund. of Aviation for Teachers	4
AVN 435	Flight Engineer	4
AVN 450	Instrument Instr. Ground	3
AVN 455	Instrument Instr. Flight	4
AVN 462	Multi-Engine X-C	1
AVN 465	Multi-Engine Flight Instr.	2
AVN 486	Principles Corp Flt Ops	4
AVN 487	Corp Flt Ops Int	2-6

**Total hours required 192**

**Note:** You must meet all University General Education Requirements in order to graduate.

### **Bachelor of Science in Aviation— Aviation Management Option Major code BS7261**

#### **General Education Requirements**

##### **General Studies: 38 hours**

ENG 151 or ENG 152 or 153	Freshman Comp. (1E)	5
PSY 101	General Psychology (2S)	5
COMS 101	Fundamentals of Human Comm. (2H)	4
COMS 103	Fund. of Public Speaking	4
ECON 103	Microeconomics (2S)	4
ECON 104	Macroeconomics (2S)	4
ENG 305J	Technical Writing (1J)	4

Choose a minimum of 8 hours from the classes below

COMS 205	Group Discussion	4
COMS 304	Interviewing	4
COMS 342	Communication and Persuasion	4
PHIL 101	Fund. of Philosophy (2H)	5
ART 110	Seeing and Knowing the Visual Arts (2H)	4
ENG 200	Intro to Literature (2H)	4

##### **Math/Science/Technology: 38 hours**

MATH 163A	Calculus (2N)	4
PHYS 201	Intro to Physics (2N)	5
PSY 120	Elementary Statistics	4
GEOG 101	Elements of Physical Geography (2N)	5

Choose a minimum of 20 hours from the classes below

MATH 113	Algebra (1M)	5
PSC 100	Survey of Astronomy (2N)	4
COMT 101	Comm. Systems Mgt. (2A)	4
HLTH 202	Health Sciences and Lifestyle Choices (2A)	4
GEOG 302	Meteorology	5

##### **Computer Science: 8 hours**

CS 120	Computer Literacy	4
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Choose a minimum of 4 hours from the courses below

CS 220	Intro to Computing (1M)	5
CS 230	Comp. Programming (2A)	5
MIS 202	Business Info Sys	4

#### **General Electives: 28 hours**

Tier III 4

Choose at least 24 hours of University courses to meet the 192-hour requirement (AVN 240 is recommended).

#### **Aviation Core Requirements**

##### **Aviation Core: 24 hours**

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 300	Aviation Laws and Regulations	4
AVN 305	Aviation Weather	4
AVN 315	Aviation Safety	4
AVN 360	Natl. Airspace System	4

#### **Option Requirements**

##### **General Business: 44 hours**

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
MGT 202	Management	4
MGT 340	Organizational Behavior	4
HRM 320	Human Resource Mgt.	4
FIN 325	Managerial Finance	4
BUSL 255	Law and Society	4

Choose 16 credit hours from the courses below.

**Note:** You may not exceed 44 credit hours in College of Business courses.

MGT 430	Mgt. Systems—Decision Making	4
BUSL 356	Law of Mgt. Process	4
ECON 305	Managerial Economics	4

Choose an additional 4 credit hour College of Business course, 300 or higher.

##### **Aviation Management: 12 hours**

AVN 390	Airline Oper. and Mgt.	4
AVN 480	General Aviation Oper. and Mgt.	4
AVN 475	Aviation Internship	2
AVN 489	Transition to Aviation Ind.	2

**Total hours required 192**

**Note:** You must meet all University General Education Requirements in order to graduate.

## **Aviation Technology (A.A.S.)**

### **Major code AA7250**

University College and the Department of Aviation offer an Associate in Applied Science in aviation technology on the Athens campus. Career opportunities in commercial aviation as FAA-certified pilots and air crew members as well as positions in related aerospace industries may be available upon completion of this program. If you are interested, contact the Department of Aviation, located at the airport.

You must receive a grade of C- (70 percent) or better in all ground school courses that require an FAA written test in order to progress to a flight course.

##### **Technical Requirements: 60 hours**

AVN 100	Intro to Aviation	4
AVN 110	Basic Aeronautics	4
AVN 240	Private Pilot Flight Course	4
AVN 300	Aviation Laws and Regs.	4
AVN 305	Aviation Weather	4
AVN 310	Adv. Aeronautics	4
AVN 315	Aviation Safety	4
AVN 320	Adv. Aircraft Systems	4
AVN 340	Cross Country Flight	4
AVN 350	Instrument System Regulations and Procedures	4



AVN 360	The National Airspace System	4
AVN 400	Instrument Flight	4
AVN 405	Adv. Cross Countries	4
AVN 420	Commercial Flight	4
AVN 480	General Aviation Operations and Mgt.	4

The following flight courses must be taken at Ohio University: AVN 400, 405, and 420. No transfer or experiential credit will be given.

#### General Requirements: 43-44 hours

CS 120	Computer Literacy	4
ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
ENG 151	Freshman Composition	5
GEOG 101	Physical Geography	5
COMS 103	Fund. of Public Speaking	4
MATH 115	Pre-Calculus or higher Tier I MATH	
MGT 202	Management	4
POLS 101	American National Govt.	4
PSY 101	General Psychology	5

Minimum required for graduation: 96

## Chemical Engineering

### Bachelor of Science in Chemical Engineering

#### Major code BS7251

Chemical engineering is that branch of engineering that deals with changing raw materials into valuable products that you use everyday. The discipline of chemical engineering is based on the application of chemistry, biology, physics, materials science, mathematics, and economics. The traditional chemical engineer develops a chemical process from its laboratory beginnings through pilot-plant equipment to full-scale, production plant operations. Chemical engineers are employed in a wide range of industrial and research positions. In addition to the traditional chemical engineering employers in the chemical and petroleum industries, chemical engineers increasingly find employment in the areas of polymers, pharmaceuticals, food processing, agriculture, environmental engineering, biotechnology, paper processing, energy, and electronics.

The chemical engineering program at Ohio University prepares undergraduate students for the opportunities and challenges that they will meet upon graduation. Our curriculum includes traditional chemical engineering courses such as mass and energy balances, fluid flow, heat transfer, and separation processes. Our students also have the opportunity to take special topics courses in materials engineering, environmental engineering, biochemical and biomedical engineering, corrosion, and electrochemical engineering. Students may use these special topics courses to tailor their own individual area(s) of specialty emphasis.

The educational objectives of our chemical engineering program, listed below, describe the skills and abilities that we expect our students to gain as they progress towards graduation.

**Objective 1** Graduates will have a strong foundation in chemical engineering theory and practice.

**Outcomes for Objective 1:** Students will demonstrate the ability to:

- a. apply knowledge to chemical engineering problems from subjects including mathematics, chemistry, physics, and other engineering disciplines;

- b. apply knowledge of chemical engineering fundamentals including material balances, energy balances, thermodynamics; momentum transfer and fluid flow, heat transfer, mass transfer, and chemical reaction engineering;
- c. apply knowledge of chemical engineering unit operations such as heat exchangers, continuous contacting equipment, staged separation processes, chemical reactors, and mass transfer equipment;
- d. complete experimental studies including designing and conducting experiments, formulating mathematical models, and analyzing and interpreting results using statistical tools;
- e. solve engineering problems including identifying the problem to be solved, determining what data is and isn't needed, identifying probable causes and potential solutions, identifying applicable theory and constructing modeling equations, articulating underlying assumptions in the theory, identifying the type of math problem and appropriate solution techniques, solving several steps in sequence, and critically evaluating the solution for reasonableness;
- f. and design chemical processes, using current engineering tools and considering controllability, product quality, economics, safety, and environmental concerns.

**Objective 2:** Graduates will have communication and interpersonal skills needed to succeed in a professional environment.

**Outcomes for Objective 2.** Students will demonstrate the ability to:

- a. participate effectively in a team through leadership, individual contributions, and multidisciplinary interactions;
- b. and communicate in oral, written, and graphical form.

**Objective 3:** Graduates will be scholars and professionals and dedicated to the betterment of themselves and society.

**Outcomes for Objective 3.** Students will demonstrate the ability to:

- a. articulate the responsibilities of engineering practice including professional responsibilities and ethical responsibilities;
- b. articulate the interaction between engineering solutions, contemporary issues, and cultural perspectives;
- c. and engage in life-long learning by learning independently and articulating the importance of independent learning for future professional development.

In addition to our required core courses, a total of 21 credit hours of technical electives (including six in advanced chemistry) are required. These elective courses permit students to pursue interests in various areas of science and engineering.

Students who so desire may choose to concentrate their technical electives in one of four emphasis areas. In order to be recognized as having an emphasis area, students should complete at least 15 of the required 21 credit hours of technical electives within a particular area. In some cases, the emphasis areas include chemistry courses that also meet the advanced chemistry course-technical elective requirement. These 15 hours must include one or

two specific courses associated with each emphasis area. The emphasis areas, along with the courses which must be included, are materials engineering (including CHE 431), biochemical engineering (including CHE 481 and CHEM 489), and energy and the environment (including CE 353). The Department of Chemical Engineering office maintains lists of approved technical elective courses, advanced chemistry courses, and courses which constitute each emphasis area.

#### Freshman

##### Fall

CHEM 151	Fund. of Chemistry I	5
MATH 263A	Calculus	4
CHE 100	Intro Chemical Engineering	2
ENG 151, 152, or 153	English Composition <sup>1</sup>	5

##### Winter

CHEM 152	Fund. of Chemistry II	5
MATH 263B	Calculus	4
	Free Elective <sup>1</sup>	4
	Tier II Requirement <sup>1, 2</sup>	4

##### Spring

CHEM 153	Fund. of Chemistry III	5
MATH 263C	Calculus	4
CHE 101	ChE Problem Solving	3
	Tier II Requirement <sup>1, 2</sup>	4

#### Sophomore

##### Fall

CHEM 305	Organic Chemistry	3
MATH 263D	Calculus	4
PHYS 251	General Physics	5
CHE 200	Material Balances	4

##### Winter

CHEM 306	Organic Chemistry	3
MATH 340	Differential Equations	4
PHYS 252	General Physics	5
CHE 201	Energy Balances	4

##### Spring

CHE 331	Principles of Engr. Mat.	4
CE 220	Statics	4
PHYS 253	General Physics	5
	Technical Elective <sup>3</sup>	3

#### Junior

##### Fall

CHE 305	ChE Thermodynamics	4
CHE 345	ChE Fluid Mechanics	5
CHE 400	ChE Applied Calculations	3
	Technical Elective <sup>3</sup>	3

##### Winter

CHE 306	ChE Phase Equilibria	4
CHE 346	ChE Heat Transfer	5
	Technical Elective <sup>3</sup>	3
ENG 305J	Junior Comp. or other jr-level comp.	

##### Spring

CHE 307	Chemical Reaction Engr <sup>1</sup>	3
CHE 347	Mass Transfer and Separations	5
CHE 408	Experimental Design	3
	Technical Elective <sup>3</sup>	6

#### Senior

##### Fall

CHE 308	Chemical Reaction Engr II	4
CHE 415	Unit Operations Lab I	3
CHE 448	Safety in Process Industry	3

CHEM 453	Physical Chemistry	3
EE 313	Basic Elec. Engr. I	3
<b>Winter</b>		
CHE 416	Unit Operations Lab II	3
CHE 442	Process Control	4
CHE 443	ChE Design I	4
CHEM 454	Physical Chemistry	3
	Technical Electives <sup>3</sup>	3

##### Spring

CHE 417	Process Control Lab	2
CHE 444	ChE Design II	4
CHE 499	ChE Senior Assessment	1
	Tier III requirement	4
	Technical Electives <sup>3</sup>	3

<sup>1</sup> May be taken in any order.

<sup>2</sup> Tier II courses should be selected from the humanities, social science, and cross-cultural perspectives areas. At least four credit hours from each of any two of these areas is required.

<sup>3</sup> Technical electives must be from approved list and include six hours of advanced chemistry.

## Civil Engineering

### Bachelor of Science in Civil Engineering Major code BS7252

Civil engineering evolved as a formal discipline at the start of the 19th century as a response to society's needs for increased mobility and convenience. Today's civil engineers deal primarily with public and private infrastructure and its relation to the environment, which includes planning, design, construction and maintenance of transportation systems, bridges, dams, buildings, water supply/distribution/treatment systems, wastewater and storm water collection/treatment/disposal systems, irrigation systems, and flood control. Civil engineers also operate public and private works, and design environmental protection for water, air, and land.

The Civil Engineering program at Ohio University is designed to prepare graduates to successfully apply the principles of civil engineering for a productive career in government and/or the private sector, as well as advanced graduate study. The goals of the program are to: (1) prepare graduates to enter and progress in the practice and principles of civil engineering; (2) provide students with a broad education in civil engineering; (3) expose students to technologies and the tools necessary for the civil engineering profession; and (4) ensure faculty are qualified to teach and advise civil engineering students.

The curriculum builds a sound foundation in basic sciences and mathematics, followed by courses in engineering science and design that provide a solid base for life-long professional learning. Engineering courses and laboratories provide an opportunity for students to experience those principles and standard practices that they will encounter in their careers. The curriculum is oriented to develop a student's ability to think logically and to apply the knowledge gained to the design and synthesis of complex civil engineering projects. The program provides an integration of design experience from the freshman year to the senior year, culminating in a capstone design course. The senior capstone course provides a comprehensive design experience for students that encompasses ethical, social, economic and safety issues. Engineering design, team problem solving and communication skills are emphasized throughout the curriculum. Students pursue areas of interest

by selecting appropriate technical electives in the areas of environmental; construction; geotechnical; engineering materials; pavements; structures; transportation; and water resources. Graduates of the program are prepared to become registered professional engineers. Students are required to take the Fundamentals of Engineering (FE) Exam as part of their graduation requirements. The FE Exam is one of the first requirements to becoming a registered engineer. An optional program is available for those who want to become registered surveyors.

A co-op program is open to qualified civil engineering students, who can obtain technical experience and income by working for private or government organizations while still in school. Students who participate in the co-op program typically take more than four years to complete degree requirements.

### Freshman

<b>Fall</b>		
CHEM 151	Fund. of Chemistry I	5
ENG 151, 152, or 153	Freshman English	5
IT 101	Engr. Graphics Fund.	3
MATH 263A	Calculus I	4
<b>Winter</b>		
CHEM 152	Fund. of Chemistry II	5
IT 222	Civil Engr. Graphics	3
MATH 263B	Calculus	4
PHYS 251	Physics	5
<b>Spring</b>		
CE 200	CE Fundamentals <sup>1</sup>	1
CE 201	CE Comp. Tech 1	3
CE 210	Plane Surveying	4
MATH 263C	Calculus	4
PHYS 252	Physics	5

### Sophomore

<b>Fall</b>		
CE 220	Statics	4
GEOL 283	Geology for Engineers	4
MATH 263D	Calculus	4
PHYS 253	Physics	5
<b>Winter</b>		
CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
CE 311	Route Engineering <sup>1</sup>	3
MATH 340	Diff. Equations	4
ME 224	Dynamics	4
<b>Spring</b>		
MATH 344	Numerical Meth. for CEs <sup>1</sup>	3
CE 351	Transportation <sup>1</sup>	3
CE 380	CE Materials <sup>1</sup>	3
CHEM 123	Prin. of Chemistry	4
COMS 103	Public Speaking	4

### Junior

<b>Fall</b>		
CE 330	Struct. Theory <sup>1</sup>	5
CE 340	Fluid Mechanics	4
CE 341	Fluid Mechanics Lab	1
	Tier II Elective <sup>2</sup>	4
CE 316	Const. Eng. Mgmt. <sup>1</sup>	3
<b>Winter</b>		
CE 370	Geotechnical Engr. <sup>1</sup>	4
CE 371	Soil Engr. Lab <sup>1</sup>	1

	CE Elective <sup>3</sup>	3
ISE 304	Applied Engr. Statistics	3
ME 321	Thermodynamics	4
<b>Spring</b>		
CE 342	Applied Hydraulics <sup>1</sup>	3
CE 343	Hydrology <sup>1</sup>	3
	CE Elective <sup>3</sup>	3
CHE 331	Prin. of Materials	4
ENG 305J	Technical Writing	4
<b>Senior</b>		
<b>Fall</b>		
CE 400	Societal Concerns in CE <sup>1</sup>	2
CE 450	Water Treatment <sup>1</sup>	3
CE 471	Foundtion Engr. <sup>1</sup>	3
EE 313	Basic Elec. Engr. I	3
	CE Elective <sup>3</sup>	3
<b>Winter</b>		
CE 432	Concrete Design <sup>1</sup>	4
CE 451	Wastewater Treatment <sup>1</sup>	3
	CE Elective <sup>3</sup>	3-4
EE 314	Basic Electrical. Engr. II	3
	Tier II Elective <sup>2</sup>	4
<b>Spring</b>		
CE 433*	Steel Design <sup>1</sup>	4
	CE Elective <sup>3</sup>	3-4
	Tier III Elective	4

<sup>1</sup> Course offered only during quarter shown.

<sup>2</sup> To meet Tier II University General Education requirements, students must take at least 4 credit hours in each of two of the following areas: Cross-Cultural Perspective (2C), Humanities and Fine Arts (2H), and Social Sciences (2S). A list of acceptable courses can be found under Graduation Requirements-General Education Requirements in this catalog. A recommended list of courses in these areas can be obtained from the Civil Engineering Department.

<sup>3</sup> Students have the option of selecting six civil engineering electives, one of which must be a senior capstone design course. The senior capstone design course will be selected from CE 491A Land Development; CE 491B Water Resources-Environmental; CE 491C Structures-Soils; and CE 491D Senior Design. Four CE electives are required from the following list and should include at least three credits of design [design credits are shown in brackets]: CE 331 (3) Structural Theory II; CE 353 (3) Env. Engr. Basics [1]; CE 410 (3) Appl. Property Surveying; CE 415 (3) Photogrammetry; CE 423 (4) Continuum Mechanics [1]; CE 424 (3) Strengths of Matls. II [1]; CE 427 (3) Exp. Stress Analysis; CE 434 (3) Adv. Str. Design [3]; CE 437 (3) Timber Des. [3]; CE 438 (3) Prestressed Concrete [3]; CE 439 (3) Computer-Aided Des. [3]; CE 445 (3) Flow Routing [1]; CE 452 (3) Water and Wastewater Analysis; CE 453 (3) Solid Haz. Waste Mgt. [2]; CE 457 (3) Water Resources Engr. [3]; CE 462 (3) Traffic Engr. [2]; CE 474 (3) Soil Mechanics Lab; CE 482 (3) Paving Matls. and Mixtures [1]; CE 483 (3) Prin. of Pavement Des. [3]. Qualified students may, with the permission of the department, substitute certain graduate-level courses for the foregoing civil engineering electives. One additional CE elective can be selected from an approved list which can be obtained from the Civil Engineering Department.

## Computer Science

### Bachelor of Science in Computer Science Major code BS7260

The computer science program is administered by the School of Electrical Engineering and Computer Science. The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation. Its laboratories and offices are located in Stocker Center and the Convocation Center. The program offers a Bachelor of Science in Computer Science (B.S.C.S.) degree through the Russ College of Engineering and Technology that is

accredited by the Computing Accreditation Commission of the Accreditation Board of Engineering and Technology, 111 Market Place, Suite 1050, Baltimore, MD 21202-4014—telephone: (410) 347-7000. The College of Arts and Sciences awards B.A. and B.S. degrees in computer science that are not accredited by a Commission of ABET; see the College of Arts and Sciences for details.

Computer science involves the design, development, analysis, and maintenance of the computer software that controls complex computer systems and networks. Computer scientists work with all aspects of computer software, including graphics, multimedia, the World Wide Web, e-mail, compilers, software engineering, artificial intelligence, theory of computer algorithms, operating systems, database systems, and internet applications.

While writing programs is an important function for computer scientists, they do much more than that. They analyze the needs of software users, develop algorithms and interfaces to meet those needs, and work in small groups to design software components. They must be proficient at problem solving, mathematical reasoning, logical thinking, and interpersonal communication. The computer science program at Ohio University, because of its strong ties with mathematics and engineering, emphasizes both the mathematical and the practical components of computer science.

The computer science program has three major objectives for its undergraduate students;

- Depth and Breadth: Produce graduates that will have the theoretical, practical, and professional knowledge for them to be immediately productive among entering the workforce or advanced study;
- Staying Current: Produce graduates that will maintain and develop the knowledge and skills needed to identify, formulate, and solve problems throughout their careers; and
- Professionalism: Produce graduates that exhibit an understanding of the necessity for personal integrity, ethical behavior, and cultural awareness.

Program educational objectives are statements that describe the expected accomplishments of graduates during the first few years after graduation.

Computer science students must fulfill the University's General Education Requirements and the distribution requirement from the College of Arts and Sciences. Students are also required to complete one year of foreign language. Students then have the option of completing four technical courses (option E) or an additional year of foreign language (option L). (See the College of Arts and Sciences for requirement waiver policy for foreign languages taken in high school.) There are 10 courses in mathematics, engineering and basic sciences, which provide a foundation for the 14 required courses in computer science and electrical engineering. These courses culminate with CS 456 where students are required to complete a software project. Students take four technical elective courses in which they can explore areas of computer science at an advanced level. During the course of their program, students work with several programming languages using both personal computers and UNIX workstations.

Computer science majors must complete 192 hours of coursework for an average of 16 hours a quarter over four

years of undergraduate study. Credit earned in approved internship or co-op programs may be applied toward graduation requirements.

#### Option E (1 year foreign language, 1 year technical courses)

##### Freshman

###### Fall

MATH 263A	Calculus	4
	Soc. sci. or humanities <sup>5</sup>	3-5
	Freshman composition <sup>2</sup>	5
	Foreign language <sup>3</sup>	4

###### Winter

CS 240A	Intro to Computer Sci. <sup>4</sup>	5
MATH 263B	Calculus	4
CS 265	Computer Ethics	1
	Foreign language <sup>3</sup>	4
EE 102	Intro to CPE	4

###### Spring

CS 240B	Intro to Computer Sci.	4
MATH 263C	Calculus	4
CS 265	Computer Ethics	1
	Soc. sci. or humanities <sup>5</sup>	3-5
	Foreign language <sup>3</sup>	4

##### Sophomore

###### Fall

CS 240C	Intro to Computer Sci.	4
MATH 263D	Calculus	4
PHYS 251	General Physics	5
	Additional sci. course <sup>1</sup>	3-5

###### Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
PHYS 252	General Physics	5

###### Spring

CS 361	Data Structures	5
MATH 340	Differential Equations <sup>3</sup>	4
PHYS 253	General Physics	5

##### Junior

###### Fall

CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats.	3
EE 304	Basic Elec. Lab I	1
EE 313	Basic Elec. Engr. I	3
	Soc. sci. or humanities <sup>5</sup>	3-5

###### Winter

CS 320	Org. of Prog. Languages	5
EE 314	Basic Elec. Engr. II	3
	Junior Composition <sup>2</sup>	4
EE 395A	ECE Design I	4

###### Spring

CS 406	Computation Theory	5
CS 456	Software Design and Dev.	5
	Soc. sci. or humanities <sup>5</sup>	3-5

##### Senior

###### Fall

CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective <sup>6</sup>	5
	Soc. sci. or humanities <sup>5</sup>	6-10

###### Winter

	Technical elective <sup>6</sup>	5
	Tier III <sup>2</sup>	4
	Soc. sci. or humanities <sup>5</sup>	3-5

## Spring

Technical elective <sup>6</sup>	6-10
Free elective	1-3

## Option L (2 years foreign language)

## Freshman

## Fall

MATH 263A	Calculus	4
	Science sequence <sup>1</sup>	5
	Freshman composition <sup>2</sup>	5
	Foreign language <sup>3</sup>	4

## Winter

CS 240A	Intro to Computer Sci. <sup>4</sup>	5
MATH 263B	Calculus	4
	Foreign language <sup>3</sup>	4
EE 102	Intro to CPE	4

## Spring

CS 240B	Intro to Computer Sci.	4
MATH 263C	Calculus	4
CS 265	Computer Ethics	1
	Science sequence <sup>1</sup>	4-5
	Foreign language <sup>3</sup>	4

## Sophomore

## Fall

CS 240C	Intro to Computer Sci.	4
MATH 263D	Calculus	4
	Foreign language <sup>3</sup>	4
	Science sequence <sup>1</sup>	5

## Winter

CS 300	Intro to Discrete Structures	5
MATH 410	Matrix Theory	4
	Foreign language <sup>3</sup>	4
	Additional sci. course <sup>1</sup>	5

## Spring

CS 361	Data Structures	5
	Soc. sci. or humanities <sup>5</sup>	3-5
	Foreign language <sup>3</sup>	4

## Junior

## Fall

CS 404	Design & Anal. of Algs.	5
EE 371	Applied Prob. and Stats	3
	Soc. sci. or humanities <sup>5</sup>	6-10

## Winter

CS 320	Org. of Prog. Languages	5
	Junior Composition <sup>2</sup>	4
	Soc. sci. or humanities <sup>5</sup>	3-5
EE 395A	ECE Design <sup>1</sup>	4

## Spring

CS 406	Computation Theory	5
CS 456	Software Design and Dev.	5
	Soc. sci. or humanities <sup>5</sup>	3-5

## Senior

## Fall

CS 442	Op. Sys. and Comp. Arch. I	5
	Technical elective <sup>6</sup>	5
	Soc. sci. or humanities <sup>5</sup>	6, 10

## Winter

	Technical elective <sup>6</sup>	5
	Tier III/2	4
	Soc. sci. or humanities <sup>5</sup>	3, 5

## Spring

Technical elective <sup>6</sup>	5
Technical elective <sup>6</sup>	5
Free elective	1-3

- 1 Computer science majors must complete a year-long laboratory science sequence: either PHYS 251, 252, and 253 or CHEM 151, 152, and (123 or 153). \*NOTE THAT STUDENTS TAKING OPTION E, ABOVE, MUST TAKE THE PHYSICS SEQUENCE. In addition, students must complete one additional natural science course. Eligible courses include BIOS 170, 171, 275; CHEM 151 (if not taken to satisfy the year-long sequence requirement), 241, 305, 351, 453; PBIO 110, 111, 247, 248; GEOL 101, 480; ASTR 305; PHSY 251 (if not taken to satisfy year-long sequence requirement), 311, 351, 411, 423, 427. PHYS 251 has a prerequisite of MATH 263A, so you may need to wait until winter quarter to start the PHYS sequence.
- 2 The Tier I freshman composition requirement can be satisfied any quarter of the freshman year. The Tier I junior composition requirement can be satisfied in any quarter of the junior year; ENG 305J is preferred. The Tier III requirement can be satisfied in any quarter of the senior year.
- 3 Computer science majors must take either two years of foreign language, or one year of foreign language and MATH 340, EE 313, EE 314, and EE 304. Two or three years of high school foreign language fulfill one year of the foreign language requirement; four or more years of high school foreign language fulfill two years of the foreign language requirement.
- 4 Students without experience in computer programming are encouraged to take CS 210 Computer Programming I before taking CS 240A.
- 5 Computer science majors have the same humanities and social science requirements as the College of Arts and Sciences (see College of Arts and Sciences "College Requirements" section). The natural science portion of the requirements is fulfilled by required coursework in mathematics and science. Careful selection of courses under this requirement will also fulfill University Tier II requirements.
- 6 Computer science technical electives can be satisfied at any time; four classes are required. Students can select from MATH 444, MATH 445, EE 467, EE 468, CS 410, CS 444, CS 458, CS 462, CS 475, CS 480.

## Electrical Engineering

The electrical engineering program is administered by the School of Electrical Engineering and Computer Science (EECS). The school is the beneficiary of a major endowment from the late Dr. C. Paul Stocker, an electrical engineering alumnus. This endowment provides support for facilities and a level of excellence surpassed by few other electrical engineering and computer science departments in the nation. The School of Electrical Engineering and Computer Science is located in Stocker Center, a modern facility housing undergraduate, graduate, and research activities. The program offers a Bachelor of Science in Electrical Engineering (B.S.E.E.) degree that is accredited by the Engineering Accreditation Commission of the Accreditation Board of Engineering and Technology, 111 Market Place, Suite 1050, Baltimore MD 21202-4012—telephone: (410) 347-7700.

Electrical engineering addresses the wide application of electrical and electronic phenomena to real-world needs, from consumer goods to space exploration. It encompasses such diverse areas as research, development, design, sales, and operation of electrical and electronic systems. Areas of specialization include such varied fields as circuit design, communications, computers and automata, control systems, electromagnetics, energy sources and systems, power electronics, power system planning, electronics, and instrumentation. Students interested in digital computers may choose from courses in the school on programming, digital circuits, computer design, and software engineering.

Electrical engineering graduates hold challenging positions in such nonelectrical industries as chemical, nuclear, automotive, medical, textile, petroleum, and transportation,

as well as in electronics, communications, power, control, and other electrical industries. The jobs performed by electrical engineering graduates include such diverse activities as research, development, design, production and manufacturing, and consulting.

The electrical engineering program has three major objectives for its undergraduate students:

- **Depth and Breadth:** Produce graduates that will have the theoretical, practical, and professional knowledge necessary for them to be immediately productive upon entering the workforce or advanced study;
- **Staying Current:** Produce graduates that will maintain and develop the knowledge and the skills needed to identify, formulate, and solve problems throughout their career; and
- **Professionalism:** Produce graduates that exhibit an understanding of the necessity for personal integrity, ethical behavior, and cultural awareness.

Program Educational objectives are statements that describe the expected accomplishments of graduates during the first few years after graduation.

The program offers two curriculum tracks leading to a B.S.E.E. degree. The electrical engineering (EE) track is intended for students who want to work in one of the many areas of electrical engineering. A computer engineering (CpE) track is available for students who intend to work in the area of computers. Students who are undecided as to which area they want to pursue should follow the electrical engineering track until they decide.

All electrical engineering students must fulfill the University's general education requirements. Students will select six elective courses in conjunction with their advisors. To develop the general knowledge and skills necessary to support the study and practice of engineering, students will take 12 courses in mathematics and the basic sciences. The purpose of the five general engineering courses is to give students an understanding of engineering fundamentals outside of electrical engineering.

The electrical engineering portion of the curriculum consists of seven blocks of courses. The introductory block is intended to promote the students interested in electrical engineering while introducing physical and logical concepts necessary for future studies. The goal of the foundations block is to develop the fundamental knowledge and analytical skills necessary for the study and practice of electrical engineering. The intermediate breadth block prepares the student to study the various areas of electrical engineering and computer engineering at the advanced level. EECS electives allow students to develop specialized knowledge and skills in one of the areas of electrical and computer engineering or explore other topics at the advanced level.

Because the ability to solve problems is critical for engineers, students will develop engineering design skills as they progress through the curriculum. While engineering design is addressed in most EE courses, it is given special emphasis in EE 103, EE 212, EE 334, and CS 456. In the intermediate design block, students will develop experience in experimental design and analysis. The design experience culminates in the senior year with the EE 495A, B, and C sequence of courses where students complete a design project that simulates work found in professional practice.

EE faculty takes their student advising duties very seriously. Each new student is assigned a faculty member as an academic advisor: students meet with their advisor on a quarterly basis to discuss course scheduling. During each quarter, EE faculty set office hours aside to meet with students and assist them with class assignments.

Ohio University is unique in offering internships in avionics engineering. The Ohio University Avionics Engineering Center, a research and engineering organization that is a unit within EECS, is extraordinary in providing undergraduate electrical engineering majors direct field and laboratory experience on real-world avionics projects sponsored by federal agencies and industry. Internship course credit can be granted for laboratory work performed, and a number of part-time jobs are supported for qualified students. Interns work with the professional faculty and staff on projects involving instrument landing systems, navigation processors, test flight evaluation, and low frequency navigation sensor systems.

Students can also participate in the College's co-op program through which they can obtain practical experience and extra income by working for a corporation or a government organization while pursuing their degree. Participating in the co-op program will typically add extra time to the completion of all degree requirements. Sophomore and Junior courses are scheduled to accommodate all students participating in the co-op program.

## **Bachelor of Science in Electrical Engineering**

### **Major code BS7253 EE Track**

### **Major code BS7254 CpE Track**

#### **General Studies**

	Freshman Composition	5
ENG 305J	Technical Writing	4
	Tier III	4

#### **Math and Basic Science**

MATH 263A	Calculus	4
MATH 263B	Calculus	4
MATH 263C	Calculus	4
MATH 263D	Calculus	4
MATH 340	Diff. Equations	4
CHEM 151	Fund. of Chemistry I	5
PHY5 251	Gen. Physics	5
PHY5 252	Gen. Physics	5

#### **General Engineering**

CE 220	Statics	4
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#### **Electrical Engineering**

##### **Introduction**

EE 101	Intro to EE	4
EE 102	Intro to CpE	4
EE 103	Intro to ECE Design	4

##### **Foundations**

EE 210	Foundations of ECE I	4
EE 211	Foundations of ECE II	4
EE 212	Foundations of ECE III	4
EE 221	Instrumentation Lab	4

##### **Intermediate Breadth**

EE 321	Electromagnetics I	5
EE 371	Probability and Statistics for EEs	3

Select either the EE Track or the CpE Track courses:

##### **EE Track**

EE 333	Intermediate EE I	4
EE 334	Intermediate EE II	4

**CpE Track**

EE 224	Intro. Dig. Circuits & Comp. Design	4
EE 351	Intermediate CpE I	4
EE 352	Intermediate CpE II	4
<b>Intermediate Design</b>		
EE 395A	Int. ECE Design Exp. I	4
EE 395B	Int. ECE Design Exp. II	4
EE 395C	Int. ECE Design Exp. III	4
<b>Advanced Design</b>		
EE 495A	ECE Capstone Design I	4
EE 495B	ECE Capstone Design II	4
EE 495C	ECE Capstone Design III	4

**Electives**

Students, in conjunction with their advisor, will create a plan of study for additional elective courses. (Minimum of 18 courses and 72 hours.) The plan must contain a significant number of non-technical courses including some breadth (courses in different areas) and some depth (courses in the same area)<sup>8</sup>. The plan must include:

2 Tier II electives<sup>1</sup>

1 Advanced Math elective<sup>2</sup>

3 Math/Basic Science electives<sup>3</sup>

2 Engineering electives<sup>4</sup>

2 Programming electives<sup>5</sup>

3 EECS electives<sup>6</sup>

2 Non-Technical Electives (Breadth/Depth)

2 Technical Electives<sup>9</sup>

2 Free Electives (Tech or Non-Tech)

Remedial courses<sup>7</sup> may not be included in the plan of study.

Computer Engineering Track students should take CS 240A and 240B for their programming electives, CS 240C and CS 361 for their engineering electives, CS 300 for their advanced math elective, and EE 224 and CS 456 for their technical electives.

<sup>1</sup> Courses must be selected so that students take at least 4 hours in two of the three Tier II categories 25, 2C, and 2H.

<sup>2</sup> Courses with automatic approval include CS 300, MATH 411, 410, 412, 413A, 440, 441, 444, 446, 460A, 470, and 480A.

<sup>3</sup> Courses with automatic approval include the approved advanced math courses, BIOS 170, 171, 172, CHEM 152, 123, 153, 301, GEOL 211, GEOL 231, 270, 283, BIOS 221, PHIL 320, PHYS 253, and PHYS 254.

<sup>4</sup> Courses with automatic approval include CE 222, 340, CS 240C, 361, ME 224, 321, 412, 491, CHE 331.

<sup>5</sup> Course pairs with automatic approval include CS 210 and 240A, and ET 181 and 240A.

<sup>6</sup> Courses must be at the 300 or 400 level with at least two at the 400 level.

<sup>7</sup> A remedial course is a course that is at a lower level than a required course. Examples would include MATH <263, PHYS 201, 202, 203, CS 120, 220, 230, ENG 150.

<sup>8</sup> This combined with the two Tier II electives will normally satisfy the minimum breadth and depth (2+2) or (3+1) model. Exceptions to these have to be approved by the advisor.

<sup>9</sup> Courses with automatic approval include any EE 3xx or EE 4xx courses (excluding required courses, EE 313, EE 314, and EE 315), CS 320-361, 404, 410, 442, 444, 456, 462, 480, MATH 410, 412, 444, 446, 460A, 460B, 470, ME 321, 410, 491, 492, CE 340, ISE 330, PHYS 253, 254

**First-Year Program**

The following sequence of classes is suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

**Fall**

MATH 263A	Calculus	4
CHEM 151	Fund. of Chemistry	5
EE 101 or EE 102	Intro. to EE Intro. to CpE	4
	Elective	4

**Winter**

MATH 263B	Calculus	4
	Math/Basic Science Elec.	4-5
EE 102 or EE 101	Intro to CpE Intro to EE	4
	Programming Elec.	4-5

**Spring**

MATH 263C	Calculus	4
	Math/Basic Science Elec.	4-5
EE 103	Intro to ECE Design	4
	Freshman Comp.	5

CpE track students take CS240A as a programming elective in the winter and CS240B in the spring instead of the math/science elective.

**Juniors and Seniors**

Juniors are encouraged to attend the Senior Electives Fair organized by the Assistant Chair during the spring quarter of the junior year. The purpose of the fair is to assist students with choosing their senior electives.

Seniors are required to arrange a graduation check with the Assistant Chair no later than the end of the fall quarter of their senior year.

Seniors are expected to complete an exit survey during the spring quarter of their senior year.

For more information visit the School's web site:

<http://www.webeecs.ent.ohiou.edu/>

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## Industrial and Manufacturing Systems Engineering

### Bachelor of Science in Industrial and Systems Engineering

#### Major code BS7255

Industrial and manufacturing systems engineers obtain a broad technical background with special attention to productivity, costs, quality, and the human factor in production and other systems. These systems include not only physical systems (such as equipment selection/layout, material handling, etc.), but also information systems (manual and automated information systems, computer networks, data bases, software, etc.) and decision/control systems (master production scheduling, inventory management, quality assurance, performance measurement, etc.).

Upon graduation, you will be responsible for designing, analyzing, rationalizing, optimizing, and controlling these large-scale sociotechnical systems. You will also supervise the operation of these systems, taking into account such vital factors as quality, throughput, equipment utilization, costs, environment, energy conservation, reliability, safety, and health.

As an industrial engineer, you will develop performance measures and standards for equipment and workers to achieve a more effective system. You will also apply engineering principles to design systems that meet the technical and economic requirements.

Consequently, the primary objective of the Department of Industrial and Manufacturing Systems Engineering is to produce engineers who are able to design, develop, and implement systems that integrate people, materials, equipment, information and energy. Graduates should have the necessary analytical and experimental skills to identify, formulate and solve engineering problems.

To successfully address technical, business, societal, and ethical aspects in their engineered solutions, several necessary skills have been identified. These skills include:

- the ability to apply appropriate industrial engineering methods and techniques to complex systems
- the ability to apply concepts of engineering science, mathematics, physics and chemistry
- the ability to utilize software relevant to industrial and manufacturing systems engineering
- the ability to design, conduct and analyze statistically-valid experiments
- interpersonal and professional communication
- teamwork and leadership

In addition, graduates should have a professional attitude demonstrated by:

- the identification and recognition of the need to continue learning by both formal and informal means;
- appreciation of the relevance of industrial engineering fundamentals and practice to non-manufacturing areas;
- integrity, cultural awareness, and ethical behavior

Courses in the first 1-2 years of the program are similar to the curricula of other engineering disciplines and provide the necessary foundation upon which advanced engineering work depends. The last two years of work provide the professional-level material, including instruction in analysis and computer applications necessary for the interdisciplinary engineering activities that are required of the modern industrial or manufacturing systems engineer.

An emphasis in the program is the development of good system design skills. In your senior year, you will complete ISE 445, a two-course sequence focusing on applied system design. In this course, you will work on a problem related to the design of an actual system, such as a manufacturing information system, an inventory control system, a material handling system, or a quality control system. The projects are provided by local industries that participate in our program. During the senior year, you will also take elective courses in the area that are closest to your career goals.

If you wish to increase the breadth or depth of your knowledge, the department offers courses leading to the M.S.I.S.E. and participates in the college's integrated Ph.D. degree program.

Industrial and manufacturing systems engineers follow careers in many fields, including manufacturing, warehousing, transportation, government, banking, insurance, and hospitals. Because of their systems training and experience, many industrial and manufacturing systems engineers move into management positions after a few years on the job. Salaries are excellent and jobs are plentiful. Because of the increasing need for the U.S. to improve productivity to meet international competition, the need for industrial and manufacturing systems engineers in manufacturing and other organizations will remain high.

For more information, see the department's Web site: <http://www.ohiou.edu/industrial/>

An electronic version of this curriculum can be downloaded from the departmental web sit in the form of a flow chart that shows the courses by quarter, including prerequisites.

## Freshman

### Fall

MATH 263A	Analytic Geometry and Calculus	4
ENG 15_	Freshman Composition	5
IT 101	Engineering Drawing	3
CHEM 121 or CHEM 151	Princ. of Chemistry I Fund. of Chemistry I	4 or 5

### Winter

MATH 263B	Analytic Geometry and Calculus	4
ECON 103	Prin. Microeconomics	4
COMS 103	Fund. of Public Speaking	4
CHEM 122 or CHEM 152	Princ. of Chemistry II Fund. of Chemistry II	4 or 5

### Spring

MATH 263C	Analytic Geometry & Calculus	4
ET 280	Intro. to Engineering	4
ECON 104	Princ. of Macroeconomics	4
ACCT 101	Financial Accounting	4

## Sophomore

### Fall

MATH 263D	Analytic Geometry and Calculus	4
PHYS 251	General Physics	5
ISE 200	Intro to Computers and IE	4
	Free Elective*	3

### Winter

PHYS 252	General Physics	5
ISE 305	Engineering Statistics I	4
ISE 330	Engineering Economy	3
MATH 211	Elementary Linear Algebra	4

### Spring

PHYS 253	General Physics	5
ISE 306	Engineering Statistics II	4
ISE 333	Work Design and Human Factors	5
	Free Elective*	3

## Junior

### Fall

ET 181	Computer Methods in Engineering	4
IT 117	Basic Metal Machining	4
	Tier II Elective*	4
EE 313	Basic Electrical Engr. I	3

### Winter

ISE 439	Information Systems Engineering	4
ISE 435	Quality Control and Reliability	3
ISE 432	Inventory and Manuf. Control I	4
	ISE Elective*	4

### Spring

ENG 305J	Technical Writing	4
ISE 432	Inventory and Manuf. Control I	4
ME 321	Intro to Thermodynamics	4
	Business Elective*	4
CE220	Statics	4

## Senior

### Fall

ISE 440	Industrial Plant Design	4
ISE 433	Industrial Computer Simulation	4
	ISE Elective*	4
ISE 441	Intro to Operations Research	4

### Winter

ISE 445A	Systems Design I	2
CHE 331	Princ. of Engineering Matrls.	4



	ISE Elective*	4
	Engineering Science Elective*	3-4
	Tier III Elective	4
Spring		
ISE 445B	Systems Design II	4
	ISE Elective*	3
	Math/Science Elective*	4
	Free Electives*	2-5

\*A minimum of 43 hours of electives is required, including:

- 15 hours in ISE elective courses
- 4 hours of mathematics or science selected from MATH 340, CHEM 123, CHEM 153, or PHYS 254
- 4 hours of business selected from BUSL 255, MGT 202, or MKT 202
- 3 to 4 hours of engineering science selected from EE 314, EE 315, CE 222, or ME 224
- 4 hours from Tier 2C or 2H courses
- 4 hours from Tier III courses
- 8 to 11 hours to be freely chosen

## Industrial Technology

### Bachelor of Science in Industrial Technology

#### Major code BS7256

Industrial technology is the study of materials, production processes, and management procedures used in manufacturing. This degree program prepares you for a technical/ management position in the manufacturing industry by providing current and relevant subject matter and experience. Typically, an industrial technology graduate is responsible for management and supervision of industrial computers, materials, machines, and personnel in areas of production, process planning, maintenance, and quality assurance.

The industrial technology program prepares you to be a technical generalist: one who is competent in a wide range of technical subjects. In addition, since most industrial technology courses are hands-on lab courses, you graduate with practical experience. All students in the program complete a common core of industrial technology courses. In addition, you must take courses in one of two technical focus areas—materials and processes (M&P) or manufacturing information technology (MIT), depending on your interests and career goals. The degree includes a minor in business.

There are four components to the curriculum: technical courses, general education, business, and electives. Each component contributes a valuable part to your overall preparation for employment.

A minimum of 194 quarter hours is required for graduation, including the following specific requirements:

#### Required Industrial Technology Core: 66

IT 100	Intro to Industrial Tech.	1
IT 101	Engr. Graphics Fund	3
IT 102	Engr. Graphics App	4
IT 103	Computer Apps. in Industrial Tech.	4
IT 111	Manufacturing Materials	4
IT 112	Intro to Manufacturing	4
IT 206	Computer Methods in Industrial Tech.	4
IT 208	Industrial Plastics	4
IT 216	Metal Machining	4
IT 218	Metal Fabricating and Casting	4
IT 221	Power Transmission	4
IT 303	Apps. of Object Oriented Programming	4

IT 332	Industrial Electronics	4
IT 363	Quality Assurance and Metrology	4
IT 400	Senior Seminar	1
IT 435	Industrial Instrumentation and Controls	4
IT 452	Contemporary Integrated Manuf.	4
IT 462	Product Manufacturing	5

#### Technical Focus

(must select from one of the following areas):

##### Materials and Processes: 24

IT 217	Prod. Metal Machining	4
IT 320	Hydraulic and Pneumatics	4
IT 362	Product Documentation	4
IT 351	Production Tooling	4
	IT Electives*	8

##### Manufacturing Information Technology: 24

IT 230	Manufacturing Computer Technology	4
IT 231	Manufacturing Database Applications	4
IT 337	Manuf. Networks and Data Comm.	4
IT 354	Automatic Ident. and Data Capture	4
	IT Electives*	8

\*Any IT course not otherwise required may be used as an IT elective, with the exception of IT service courses (IT 104, 110, 117, 220, 222). Courses required for one focus area may be used as electives under the other focus area.

#### General Education Requirements: 64

ENG 151	Freshman Composition	5
ENG 305J	Technical Writing	4
COMS 103	Public Speaking	4
Tier III	Synthesis	4
MATH 163A	Intro to Calculus	4
MATH 250, 251	Intro to Probability and Statistics	8
CHEM 121, 122	Prin. of Chemistry	8
PHYS 201, 202	Intro to Physics	10
ECON 103	Prin. of Microeconomics	4
PSY 101	General Psychology	5
Global Perspective	Select one course from approved list	4
Tier II	Select from Applied Science and Tech., or Humanities and Fine Arts	4

#### Business Management: 28

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
FIN 325	Found. of Finance	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 310	Prin. of Operations	4

#### Electives: 12

##### Advanced Standing

A student must be admitted to advanced standing in order to register for Industrial Technology courses at the 200 level or above. To be eligible for advanced standing, a student must complete the following courses with a minimum cumulative g.p.a. of 2.5:

ENG 151 or 152 or 153 or COMS 103
MATH 163 or 263A or MATH 250
CHEM 121 or 151 or PHYS 201 or 251
ACCT 101 or MGT 202 or ECON 103
IT 100, IT 101, IT 103 (or MIS 201 or CS 120), IT 111, and IT 112

##### Associate's Degree Transfer Students

If you have completed a two-year associate's degree in a related technical area from an accredited college or university, you may enter the Industrial Technology program with junior standing. An assessment of previous coursework will determine the remaining requirements for the bachelor's degree.

**First-Year Program**

The following classes are suggested for your freshman year. Your advisor will help you plan additional coursework to meet all graduation requirements in a timely manner.

**Fall**

IT 100	Intro to Industrial Technology	1
IT 101	Engr. Graphics Fund.	3
IT 103	Computer Applications in Ind. Tech.	4
COMS 103	Public Speaking	4
CHEM 121	Principles of Chemistry	4

**Winter**

IT 102	Engr. Graphics Apps.	4
IT 111	Manufacturing Materials	4
IT 112	Intro to Manufacturing Processes	4
CHEM 122	Principles of Chemistry	4

**Spring**

IT 206	Computer Methods in Ind. Tech.	4
IT 208	Industrial Plastics	4
IT 216	Metal Machining	4
MATH 163A	Intro to Calculus	4

**Mechanical Engineering****Bachelor of Science in Mechanical Engineering  
Major code BS7257**

Ohio University's Mechanical Engineering program is constructed so that graduates are able to meet the four educational objectives outlined below. These objectives are consistent with and embrace ABET Criteria 2000 Outcomes. Ohio University Mechanical Engineering graduates are to have:

- i. a strong fundamental scientific and technical knowledge base and critical thinking skills to serve as the foundation for engineering practice and life-long learning;
- ii. the ability to apply engineering skills to engineering analysis and design projects;
- iii. the ability to communicate technical information effectively in written, oral, visual, and graphical forms;
- iv. an awareness and understanding of ethical, legal, and economic ramifications relating to professional practice.

Mechanical engineering is an extremely diverse profession which is concerned with (1) the economical and ecological conversion of energy from natural sources to provide power, heating, cooling, and propulsion; (2) the design of all types of machines, engines, and vehicles; (3) the processing of materials into useful products; and (4) the development of systems for using machines and resources. Professional activities include research, development, design, testing, production, operation and maintenance, marketing and sales, technical management and administration.

The mechanical engineering curriculum is designed to provide a solid foundation in higher mathematics, physics, and chemistry followed by extensive instruction in all of the classical mechanical engineering disciplines. The curriculum contains a significant amount of design content wherein students are required to apply their engineering skills to solve real-world and/or open-ended problems in a project format. The principal objectives of the design experience are 1) to allow students to use their own creativity in formulating alternative engineering solutions; 2) to develop an ability to work independently and/or in

teams which is an important skill for continued growth as a practicing engineer; 3) to bridge the gap between the acquisition of engineering knowledge in required courses and the application of that knowledge to solve engineering problems. The objectives of the design experience are consistent with the department's overall objective of producing highly competent engineers with an ability to formulate and solve real engineering problems.

The design experience begins in freshman year (ME 100) wherein students are introduced to elements of engineering design. This often involves the design and construction of a device to perform a specified task. Throughout the sophomore, junior, and senior years, mechanical engineering students are required to solve design problems in many of the required engineering courses and across the spectrum of disciplines encompassed by the mechanical engineering profession. Senior mechanical engineering students are challenged in a sequence of three formal design courses (ME 470, 471, 472) involving a capstone senior design project which begins in ME 470 and culminates in ME 472. The capstone project requires application of engineering knowledge in thermal/fluid sciences, structures and motion analysis, engineering materials, engineering economy and social issues such as product safety and reliability. Students are required to submit written technical reports as well as give oral presentations describing project results. This is in accord with the department's objective of producing engineers who have good communication skills as well as excellent technical skills. The design experience is enhanced by providing students with technologically modern lab facilities and computational tools.

In addition to engineering courses, the department requires significant studies in the humanities and social sciences to establish a breadth and depth of awareness and education. Advanced courses in both the humanities and social sciences are required. The humanity and social science requirements are consistent with the department's objective of graduating individuals with a well-rounded education.

The Department of Mechanical Engineering prides itself on offering students a close working relationship with the faculty. Mechanical engineering faculty are required to set aside office hours to assist students with class assignments. In addition, each student who enters the program is assigned one of the mechanical engineering faculty members as an academic advisor who will meet quarterly with the student to assist in course scheduling.

If you are majoring in mechanical engineering as preparation for entry into another profession such as law, medicine, business, etc., consult with the department chair regarding modifying your schedule to meet specific career objectives.

The Department of Mechanical Engineering offers a co-op program that allows you to acquire practical experience and income by working in industry after completing your freshman year. Sophomore and junior courses are scheduled to accommodate a work-academics plan based on alternate periods of study and work. Consult the co-op office if you are interested.

An honors program for students with 90 or more hours and in the top 20% of their class provides the opportunity to receive graduate credit for coursework throughout your senior year. Contact the department office for further information.

The Paul H. and Irene C. Black Memorial Fund provides a large number of generous scholarships for seniors majoring in mechanical engineering. A good academic record, a history of work to cover the cost of education, and participation in departmental activities are key considerations in awarding the scholarship. Contact the department office for additional information.

### Freshman

#### Fall

IT 101	Engr. Graphics Fund.	3
MATH 263A	Calculus <sup>1</sup>	4
ME 100	Intro to Mech. Eng.	4
	Eng. Composition <sup>2</sup>	5

#### Winter

ET 181	Computer Meth. in Engr. I	4
COMS 103	Public Speaking	4
MATH 263B	Calculus	4
PHYS 251	Gen. Phys.	5

#### Spring

CE 220	Statics	4
MATH 263C	Calculus	4
PHYS 252	Gen. Phys.	5
	Hum. or Soc. Sci. Elective <sup>3</sup>	4

### Sophomore

#### Fall

ME 224	Dynamics	4
CHEM 151	Fund. of Chemistry I <sup>4</sup>	5
MATH 263D	Calculus	4
PHYS 253	Gen. Phys.	5

#### Winter

CHEM 152	Fund. of Chemistry II	5
IT 117	Basic Metal Machining	4
MATH 340	Diff. Equations	4
EE 313	Basic EE I	3
EE 304	Basic EE I Lab I	1

#### Spring

CE 222	Strength of Materials	4
CE 223	Strength of Materials Lab	1
ET 240	Computer Meth. In Engr. II	4
EE 314	Basic EE II	3
EE 305	Basic EE II Lab	1
	Hum. or Soc. Sci. Elective	4

### Junior

#### Fall

CE 340	Fluid Mechanics	4
CHE 331	Prin. of Engr. Materials	4
ME 301	Kinematics	4
ME 398	Junior Lab	4

#### Winter

ENG 305J	Junior Composition <sup>5</sup>	4
ME 321	Intro to Thermodynamics	4
ME 350	Intro to CAD	4
ME 401	Sys. Anal. And Controls	4

#### Spring

CHE 418	CHE Lab Materials	2
ME 313	Finite Processing	3
ME 328	Applied Thermodynamics	4
ME 403	Machine Design I	4
	Hum. or Soc. Sci. Elective	4

### Senior

#### Fall

ME 412	Heat Transfer	4
ME 470	ME Design I <sup>6</sup>	4
ME 491	Vibrations	4
	Technical Elective <sup>7</sup>	4

#### Winter

	Hum. or Soc. Sci. Elective	4
ME 471	ME Design II	4
ME 498	Senior Lab	4
	Technical elective	4

#### Spring

	Hum. or Soc. Sci. Elective	4
ME 472	ME Design III	4
	Tier III Elective	4

<sup>1</sup>Students must qualify to take this course by passing a placement test.

<sup>2</sup>The level and the quarter this course is offered is determined by a placement test taken during the Precollege orientation session.

<sup>3</sup>Twenty hours of humanities and social sciences with a minimum of eight hours in each area are required. These hours should include a two course sequence in each of these areas.

<sup>4</sup>Students must qualify to take this course by passing a placement test.

<sup>5</sup>Students may take this course any quarter upon completion of 90 hours.

<sup>6</sup>ME 470, 471, and 472 must be taken in sequence beginning in the fall quarter of the senior year.

<sup>7</sup>Each student must complete at least 8 hours of technical electives. Technical electives are any engineering course at the 300-level or above, or any course in math or physics at the 400 level.

# College of Fine Arts

Jennings House

**Raymond Tymas-Jones**  
*Dean*

**Norma J. Humphreys**  
*Assistant Dean*

**Chuck McWeeny**  
*Associate Dean*

The College of Fine Arts includes the Schools of Art, Dance, Film, Interdisciplinary Arts, Music, and Theater. The College offers a broad cultural education in the fine arts, as well as specialized training in a wide range of career fields.

## Schools and Programs

The School of Art, located in Seigfred Hall, offers degree programs in art education, art history, ceramics, graphic design, painting, photography, printmaking, and sculpture.

The School of Dance, located in Putnam Hall, offers a single preprofessional degree program in dance. A limited number of exceptional students may be approved to pursue work in dance through the Honors Tutorial College.

The School of Film, located in Lindley Hall, does not offer an undergraduate degree program. You may, however, earn a minor in film, and many undergraduate film courses are available, some of which may be used to fulfill specific degree requirements. A limited number of exceptional students may be approved to pursue work in film through the Honors Tutorial College.

The School of Interdisciplinary Arts, located in Lindley Hall, does not offer an undergraduate degree program. You may, however, earn a minor in interdisciplinary arts, and many undergraduate interdisciplinary arts courses are available, some of which may be used to fulfill specific degree requirements.

The School of Music, located in the Music Building, offers degree programs in music composition, music history and literature, music education, music theory, music therapy, orchestral instruments, organ, piano, piano pedagogy, and voice.

The School of Theater, located in Kantner Hall, offers degree programs in production design and technology, theater arts and drama (management, and playwriting), and theater performance (acting).

## Double Majors

If you wish to pursue a second major outside the College of Fine Arts, apply for admission to the college offering the second major. See "A Second Bachelor's Degree" in the Graduation Requirements section of this catalog for specific requirements.

You may wish to pursue two majors within the College of Fine Arts simultaneously, earning a dual major degree. You must be admitted to and complete all requirements for each of the majors.

## Minors

Minors are available in art, dance, film, interdisciplinary arts, music, and theater. The minors are designed for students majoring in other fields who wish, in the course of their formal education, to pursue study in the arts. Specific requirements for each minor can be found in this section following the requirements for majors in each school.

If you wish to declare a minor in the College of Fine Arts, consult with both your major advisor and an advisor within the minor program.

If you are a major in the College of Fine Arts and wish to pursue a minor offered by another school or department within the University, consult that school or department's section of the catalog.

## Admission Requirements

High school applicants to Ohio University who wish to pursue a degree program in the College of Fine Arts may apply for direct entry into the College. You may enter the School of Art as a general art major. Entry into a degree program in the School of Art requires the successful completion of a portfolio review which usually occurs during the sophomore year. You may enter the School of Theater as a general theater major. Entry into a degree program in the School of Theater requires the successful completion of an audition/interview, which occurs during spring quarter of the freshman year. You are required to audition if you desire direct entry into programs in the School of Dance or the School of Music. For final acceptance into a major program, you must meet all entrance requirements described under that major.

To transfer from another college or university, you are required to audition, submit a portfolio, or meet the requirements specified by each program in the College of Fine Arts in addition to gaining admission to Ohio University. Write to the director of the particular program in which you are interested for detailed information.

Ohio University students requesting transfer to major programs in the college also are required to meet the above criteria and should consult the appropriate school before applying for transfer.

## Scholarships and Awards

A limited number of scholarships and awards of varying amounts are available to majors in the College of Fine Arts. Some awards are renewable; others are granted on a one-time basis, renewable at the discretion of the school involved. Awards are based primarily on talent demonstrated through audition, interview, and/or portfolio submission. In each case, academic performance is considered important. Contact the director of the appropriate school before January 1 to arrange an audition or portfolio submission.

## Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "Academic Opportunities—University Wide" section.

## Advising

The College of Fine Arts maintains a system of academic advising for its majors, with assigned members of the faculty serving as advisors. Maintain ongoing contact with your advisor for assistance with concerns related to academic and career planning. Your advisor will assist you with an appropriate selection of courses each quarter as you prepare your schedule. It is especially important that you work closely with your advisor to maintain the proper sequence of courses in your major. Deviations from the normal course requirements, including waivers and/or substitutions, must be approved in writing by your advisor and the Dean's Office. In some cases additional approval by a faculty committee is required.

Although your advisor will be helpful in assisting you with the preparation of your schedule, **it is your responsibility to make certain that all graduation requirements are met.**

## Degrees and Requirements

The Bachelor of Fine Arts (B.F.A.) degree is granted upon completion of programs in the School of Art, the School of Dance, and the School of Theater. The School of Music grants the Bachelor of Music (B. Mus.) degree.

All programs of study within the College of Fine Arts are intended to provide students with a strong foundation in the arts and culture, as well as an opportunity for specialized professional training. Every effort is made through careful individual advising and a flexible curriculum to meet the individual needs of each student.

If your qualifications are outstanding, certain courses may be waived from the proposed program of study. You may request of your advisor a review of qualifications for course waiver. In some cases, additional approval by a faculty committee is required.

Candidates for degree programs in the College of Fine Arts must complete a minimum of 192 quarter hours with an accumulative grade-point average (g.p.a.) of at least 2.0 (C). The minimum number of quarter hours and accumulative g.p.a. for some degree programs is higher.

## School of Art

### Robert Lazuka, *Director*

The School of Art is a community of artists and scholars dedicated to exploration and education in the visual arts. Our goal is to prepare graduating students for professions as artists, teachers, or professionals in related fields, as well as for admission to graduate programs. Our nationally acclaimed faculty members were chosen for expertise in their fields of study, as well as for their dedication to teaching. The six schools that compose the College of Fine Arts offer a wide variety of cultural opportunities in fine arts, dance, music, theater, film, and Interdisciplinary arts. Situated in the foothills of the Appalachian Mountains, the beautiful Hocking River runs through the campus and the city of Athens. The community affords a number of options for outdoor and indoor recreation and entertainment. Two annual favorites are the Columbus to Athens Fall Classic bicycle marathon and the Athens International Film Festival. Three Study Abroad Programs extend our reach to China, England, and Italy where students can experience first-hand the art and history of different cultures.

Students can earn a Bachelor of Fine Arts (BFA) degree majoring in art education, art history, ceramics, graphic design, painting, photography, printmaking, and sculpture. To accommodate these pursuits our facilities include an extensive range of ceramic kilns; a sculpture building, including metal working equipment, a modern foundry, and a comprehensive wood shop; painting and drawing studios; printmaking facilities with photo-silkscreen, lithography, etching and typesetting presses, digital equipment for production large-scale prints; graphic design digital labs; extensive darkrooms, photography studios, and computers for digital imagery. Our own Visual Resource Library contains more than 200,000 images in slide form and numerous videotapes and books. All students have e-mail access and entry to the major collections in the Fine Arts Library located at Ohio University's Alden Library, which serves as a federal research repository and is particularly strong in Renaissance, 19th century, Oceanic, modern art, contemporary art, and the history of photography. On-campus study collections include the Kennedy Collection of Native American Art, the Kennedy Collection of African Art, the Trisolini Contemporary Print Collection, as well as exhibitions curated at the Kennedy Museum of Art. Our Visiting Artists program regularly brings to campus internationally known artists and scholars.

All students enter the art program as General Art Majors and have shared experience during their first two years in the Foundations program. This program provides students with a basis for critical and creative thinking by giving them a broad range of experiences in the studio and in the classroom. These first two years also give students the opportunity to integrate their general education studies with their development as growing artists and scholars. Once students complete this aspect of the program most of the explorations focus upon study within the chosen area of specialization. (Students interested in becoming art education or art history majors should consult with faculty in those areas during their first year of study.) Studio areas require an exhibition of each student's art works as the crowning event in achieving the BFA degree. Student achievements are acknowledged through awards presented

at student exhibitions, as well as through talent and academic scholarships. These scholarships are available to both incoming and continuing students.

With a faculty of 30 members, the School of Art makes advising an integral part of the educational experience. Students are encouraged to consult regularly with advisors concerning the selection of courses and progress toward fulfilling degree requirements. Advisors also can help students determine which scholarships are available. Other resources for advising and consulting are the Student Services Coordinator, the chair of the Foundations Program, or the area chair in your major.

Three organizations in the School of Art round out the community by affording more opportunities for student interaction. The Undergraduate Art League (UAL) sponsors visiting artists, organizes annual juried exhibitions, and coordinates trips to major museums. The Students in Design (SID) is a student chapter of the American Center for Design (ACD). SID members sponsor design-related events, assist sophomores in portfolio preparation, and attend the annual ACD conference. The National Art Education Association (NAEA) serves as a networking and support organization for art education majors.

The School of Art nurtures an interdisciplinary atmosphere in which students from many disciplines come together. Diversity in gender, culture, and ethnicity exists and is welcome within our program, just as we welcome diversity in method, style, and medium. Artists historically have borrowed from and have been influenced by other cultures, methods, and peoples. We seek out differences and celebrate them.

### Admission Requirements

If you are planning to become an art major, enter the School of Art as a general art major (major code NDS153). You need to meet the general University requirements in order to be accepted. A portfolio is required only if you are interested in applying for a scholarship or if you are a transfer student.

### Scholarships

Talent scholarships are available to incoming first-year students through the College of Fine Arts Talent Awards, the Foster Award, and the L.C. Mitchell Memorial Scholarship. Submit portfolios of 20 slides to the School of Art Scholarship Committee, Seigfred Hall, Ohio University, Athens, Ohio 45701, by the February 1st deadline. Detailed information on portfolio requirements can be obtained from the Student Services Office at the School of Art.

Incoming students are also eligible to be considered for the following University academic achievements: Presidential Scholar, University Scholar, Founders Award, and the Valedictorian Award. Three other University programs support multicultural students: the Incentive Awards, the King/Chavez/Parks Awards, and the Templeton Scholar Award. These scholarships are awarded through the Office of Student Financial Aid and Scholarships and require certain criteria in order to be renewed each year.

Once enrolled, recognition is given to art majors as they pursue their programs through the annual awarding of scholarships and prizes, including the College of Fine Arts/Dean's Awards and numerous endowed funds. These funds are awarded for outstanding accomplishments at the sophomore through senior levels and are based primarily on

talent. Included in the School of Art endowed scholarships are: Kenneth Clifford Memorial, John Steven Cordray Scholarship Fund, Rose Marie Darst Memorial Greene Scholarship, L.C. Mitchell Memorial, Francis Paulson Family Memorial, Mary Nelson Stephenson Art Memorial Award, and the Edna Way Scholarship. Application for these scholarships must be made on line by March 17th at <http://www-sfa.chubb.ohiou.edu/>.

### Work Experience

Program to Aid in Career Exploration (PACE) positions are designed to offer pre-professional experiences to undergraduates in all areas throughout the University. The School of Art faculty and administrators employ PACE students who learn as apprentices in many areas of the school. Some of these include: Graphic Designer, Studio Assistants, Slide Library Photographer, Public Relations Assistant, Studio Art Printer, Graphic Design Lab Manager, gallery Assistant, Web Master, and Newsletter Editor. Students interested in this program must apply for PACE eligibility at the Office of Financial Aid and Scholarships. Workstudy positions are available in the School of Art. Motivated art majors frequently find internships in the Kennedy Museum of Art or in local galleries. Upper-class art majors may apply to become Art Ambassadors for the school.

### Transfer Requirements

While the School of Art welcomes students transferring from other programs, not all students can be accepted due to limits in space and resources. If you are not accepted after your first application, you may re-apply the following quarter.

Transfer policy for students currently enrolled at Ohio University:

- Minimum requirement of a 2.75 g.p.a.
- Must enroll as a general art major and complete a required program of Foundations and Studio courses.
- Being a general art major does not guarantee the student will become an art major. A student must complete the prerequisite Foundations and Studio courses and submit a portfolio to a particular discipline area for faculty review before becoming an art major.
- May not enroll as a senior.
- Applications for transfer may be obtained from the student's college or the College of Fine Arts.
- Must contact the student services coordinator at the School of Art for advising during the first quarter of study.

Transfer policy for students attending another institution of higher learning:

- Must enroll as a general art major and complete a required program of Foundations and Studio courses or equivalent courses.
- To apply for credit for studio course work completed at another institution, submit the following  
A copy of all college transcripts, a portfolio of original work (slides or flat pieces only, all 3-D work must be in slide form) along with a self-addressed stamped envelope should be sent to the Director of Foundations, Transfer Portfolio Review, School of Art, Seigfred Hall, Ohio University, Athens, OH 45701 prior to the following evaluation dates

May 1--Fall and Summer entries  
October 1--Winter entries  
February 1--Spring entries

- Applications for transfer may be obtained from the Ohio University Office of Admissions.

### Major Areas and Requirements

Before you can graduate, you must satisfy the degree requirements of Ohio University, the College of Fine Arts, and the School of Art.

The following courses, available on regional campuses only, may not be used to fulfill specific degree requirements in the School of Art, including studio electives: ART 115A, 125, 141, and 151. School of Art majors may use these courses as free electives only.

## Art Education Major

### Major code BF5122

Art education degrees are offered in the School of Art (Bachelor of Fine Arts) and the College of Education (Bachelor of Science). The B.F.A. degree program in art education—the teaching of visual arts in grades K–12—is a course of study for Ohio MultiAge provisional licensure.

To become an art education major, you must first see an art education faculty member from the School of Art during your first year of study, whether your degree track is a B.F.A. or B.S. degree. You must complete ART 260 (recommended spring quarter of first year or fall of second year) with a grade of "B" or better, complete all Studio Foundations courses, and attain an overall g.p.a. of at least 2.75.

- 1 Students should also apply for admission to Professional Education (in the College of Education) after completion of 45 quarter hours.
- 2 Students must complete the following courses with a grade of "C" or better in each course.
  - A completion of PSY 101
  - B completion of COMS 103
  - C completion of Freshman Quantitative Skills
  - D completion of Freshman Composition
- 3 acceptable score on the ACT, CBT, SAT, or Preprofessional Skills test
- 4 cumulative g.p.a. of 2.75 or above

Student teaching is normally assigned during one of the quarters of the senior year. Application for student teaching is to be made to the office of the director of Student Teaching no later than December 1 preceding the academic year in which the student teaching assignment is desired.

### Required General Education Courses

Tier I Quantitative Skills	4-5
Tier I English Composition	4-5
Tier I Junior Composition	4-5

### Specific Tier II Course Requirements\*

ART 211, 212, 213 or 214	History of Art History of Non Western Art	4
COMS 103	Fundamentals of Public Speaking	4
PSY 101	General Psychology	5
	Tier III Elective	4-5

\*The remaining 17 hours needed to satisfy the Tier II general education requirement may be chosen as electives per catalog guidelines.

**Professional Education Requirements**

EDTE 200	Learning, Growth, and Development	6
EDTE 201	Characteristics of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
EDCT 203	Techno. Applications in Ed	4
EDCS 301	Ed and Cultural Diversity	3
EDTE 371B	Instructional Adaptations for Learners with Exceptionalities and Diverse Needs-Secondary	4
EDCS 400	School, Society, and the Professional Educator	4
EDSE 350	Secondary School Planning and Instruction	4
EDSE 351	Secondary School Teaching and Learning	4

**Teaching Field Requirements****Studio Foundations**

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4
ART 260B	Foundations of Art Education	4

**Art Education Methods Courses**

ART 461B	Teaching Art in the Elementary School
ART 462B	Teaching Art in the Secondary School

Multi-age professional and general requirements must also be completed.

**Studio Courses**

Forty (40) hours of studio courses must be completed: A 15-hour concentration in one studio area of courses at the 200-level or above, and 25-hours of studio at the 200-level or above in at least three other studio areas.

**Art History Courses**

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art	12
	History of Non-Western Art	
	Elective in AH (300/400 level)	4

Must complete an exit survey with the School of Art

**Student Teaching**

(Apply by December 1, one year in advance)

Three courses, taken concurrently:

EDPL 461	Student Teaching in Middle Childhood	7
EDPL 463	Student Teaching in Secondary Schools	6
EDPL 465	Student Teaching Seminar	3

**Total minimum hours required: 196**

**Art History Major****Major code BF5123**

In the art history program, students learn how to articulate and express their ideas about art and develop research and writing skills as tools for communicating about art. Art history majors research art in depth and may pursue graduate art history studies. Many students complete internships at galleries and museums throughout the country. To reflect the breadth and variety of art, the art history program offers a diverse, comprehensive curriculum in the history of world art. Students from across the University have opportunities to participate in summer Study Abroad programs in Italy, Great Britain, and China, where they experience art monuments in their unique historical and cultural contexts.

The B.F.A. in art history provides a strong foundation in art history and studio art, advanced courses in art history, and liberal arts electives. Art history majors enter graduate study, seek employment in museums, or work in related fields. Students are expected to arrange programs of study with assigned faculty advisors. Selection of elective courses, in particular, should be made only after consultation with an advisor.

To apply to become an art history major, you must (1) complete and achieve a minimum 3.0 g.p.a. in two courses from the art history survey sequence; (2) have an overall academic g.p.a. of at least 2.75; (3) submit a copy of your DARS form for review and two samples of your own academic writing (one of which must be a sample from an art history course) to the art history chair; and (4) be prepared to discuss why you wish to declare art history as your major. Students should apply upon completion of two of the art history survey courses that include AH 211, 212, 213, and 214.

To graduate as an art history major, you must have completed at least one year of a foreign language. (See area chair for policy concerning undergraduate foreign language requirement.)

**Years One and Two****General Academics**

	Tier I English Composition	5
	Tier I Quantitative Skills	4-5
	Two Tier II Electives	8
	General Electives	24
AH 211, 212, 213	Art History	12
AH 214	History of Non-Western Art	4
	Two Tier II Electives	8
	Foreign Language	12

**Studio Foundations**

ART 110	Seeing and Knowing Visual Arts (1st quarter preferred)	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4

Select two of the following studios:

ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

**Junior Year**

	Art History Courses (300/400 level)	
	One Studio Course	5
	Tier I English Comp (300 Level)	
	Tier II Elective	9
	General Electives	12

**Senior Year**

	Four Art History Electives (300/400 Level)	16
	One Studio Course	5
	Tier II	5
	Tier III	4
	General Electives	16

Must complete an exit survey with the School of Art.

**Total minimum hours required: 192**



## Studio Majors

**Ceramics—Major code BF5127**

**Graphic Design—Major code BF6321**

**Painting—Major code BF5124**

**Photography—Major code BF5143**

**Printmaking—Major code BF5128**

**Sculpture—Major code BF5126**

The B.F.A. degree program with a major in one studio area provides extensive study in a single discipline. Studio majors find success as professional artists or graphic designers, enter graduate schools, or work in related art and design fields.

All art students enter the program as General Art majors and share common requirements in General Academics, Studio Foundations, and Art History. To become a major in ceramics, graphic design, painting, photography, printmaking, or sculpture, a portfolio of studio work must be submitted for review at the end of the sophomore year. Students may apply to more than one area, but are encouraged to dedicate their studies to only one, after passing review. Some major areas have portfolio reviews only in the spring, while others have them each quarter. Consult area faculty for specific dates and criteria for review.

### Ceramics Major—Major code BF5127

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

#### General Academics

##### Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective (not needed before portfolio review)	4-5

#### Studio Foundations

##### Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography.	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

#### Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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#### Studio Requirements

Five 200-level Studio Courses* (at least two ceramics courses required to apply for major)	25
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**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Consult the area chair for details on the portfolio requirements in your area of interest.

#### Ceramics Studio Courses

##### Year Two

(10 of the 15 hours required must be taken before the portfolio review.)

ART 221	Intro to Ceramics I	5
ART 222	Intro to Ceramics II	5
ART 223	Intro to Ceramics III	5

##### Year Three

ART 321	Intermediate Ceramics I	5
ART 322	Intermediate Ceramics II	5
ART 323	Intermediate Ceramics III	5

##### Year Four (at least 10 hours required.)

ART 421A	Advanced Ceramics	5
ART 422A	Ceramics Workshop (may be taken twice)	5-10

#### Senior Studio Requirements

ART 496A	Ceramics Studio Practicum	3
ART 496B	Ceramics Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	8

Must complete an exit survey with the School of Art.

#### Total minimum hours required: 192

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

### Graphic Design—Major code BF6321

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

#### General Academics

##### Years One-Four

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective (not needed before portfolio review)	4-5

#### Studio Foundations

##### Years One-Two

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

#### Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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#### Studio Requirements

Five 200-level Studio Courses\*  
are required to apply for major,  
three of which must be ART 250,  
ART 251, and ART 255.

**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Applicants must have a 3.0 minimum g.p.a. in all graphic design courses. It is highly recommended that the student also receive a 3.0 or better g.p.a. in all their School of Art courses and a minimum of 3.0 overall. Consult the area chair for details on the portfolio requirements in your area of interest.

#### Graphic Design Studio Courses

##### Year Two

ART 250	Design Principles	5
ART 251	Typography	5
ART 255	Form and Content	5

**Year Three**

ART 351	Graphic Design: Junior Studio	5
ART 352	Graphic Design: Junior Studio	5
ART 353	Graphic Design: Junior Studio	5

**Year Four**

ART 451	Graphic Design: Senior Studio	5
ART 452	Graphic Design: Senior Studio	5
ART 496A	Graphic Design: Studio Practicum	3
ART 496B	Graphic Design: Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	8

Must complete an exit survey with the School of Art.

**Total minimum hours required: 192**

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

**Painting—Major code BF5124**

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

**General Academics****Years One-Four**

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective (not needed before portfolio review)	4-5

**Studio Foundations****Years One-Two**

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

**Art History**

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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**Studio Requirements**

Five 200-level Studio Courses* (at least two painting courses required to apply for major)	25
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**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Minimum of 3.0 g.p.a. in painting classes required to be admitted to the major. Consult the area chair for details on the portfolio requirements in your area of interest.

**Painting Studio Courses****Year Two**

ART 275A	Basic Painting I	5
ART 276A	Basic Painting II	5

**Year Three**

ART 375A	Intermediate Painting I	5
ART 376A	Intermediate Painting II	5
ART 377A	Intermediate Painting III	5

**Year Four**

ART 475A	Advanced Painting I	5
ART 476A	Advanced Painting II	5
ART 477A	Advanced Painting III	5
ART 496A	Painting Studio Practicum	3
ART 496B	Painting Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Two Art History Electives (300-400 level)	

Must complete an exit survey with the School of Art.

**Total minimum hours required: 192**

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

**Photography—Major code BF5143**

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

**General Academics****Years One-Four**

Tier I English Composition	5
Tier I Quantitative Skills	4-5
Tier I Junior Composition	4
Tier II Electives	30
Tier III Elective (not needed before portfolio review)	4-5

**Studio Foundations****Years One-Two**

ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography.	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

**Art History**

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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**Studio Requirements**

Five 200-level Studio Courses* (at least two photography courses required to apply for major)	25
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**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Students are required to have a minimum of 3.0 g.p.a. in their photography classes. Consult area chair for details on the portfolio requirements in your area of interest.

**Photography Studio Courses****Year Two**

(10 of the 15 hours required must be taken before the portfolio review.)

ART 281	Photography I: Black and White	5
ART 282	Photography II: Color	5
ART 283	Photography III: Digital	5

**Year Three**

ART 381	Photographic Arts I	5
ART 382	Photographic Arts II	5
ART 383	Photographic Arts III	5

**Year Four**

ART 481A	Advanced Photographic Arts I	5
ART 482	Advanced Photographic Arts II	5
ART 496A	Photography Studio Practicum	3

ART 496B	Photography Studio Project	3	Seven Studio Electives** (15 credits must be from 300-400 level)	35
AH 237	Photo History Survey	4	Two Art History Electives (300-400 level)	8
	One Art History Elective (300-400 level)	4		

Must complete an exit survey with the School of Art.

#### Total minimum hours required: 192

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

#### Printmaking—Major code BF5128

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

#### General Academics

Years One-Four		
	Tier I English Composition	5
	Tier I Quantitative Skills	4-5
	Tier I Junior Composition	4
	Tier II Electives	30
	Tier III Elective (not needed before portfolio review)	4-5

#### Studio Foundations

Years One-Two		
ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

#### Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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#### Studio Requirements

	Five 200-level Studio Courses* (at least two printmaking course required to apply for major)	25
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**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Consult area chair for details on the portfolio requirements in your area of interest.

#### Printmaking Studio Courses

Year Two		
Select at least 10 hours from		
APT 241	Lithography	5
APT 242	Etching	5
APT 247	Relief Printing	5
APT 248	Screenprinting	5
Year Three-Four		
Select at least 30 hours from		
APT 341	Advanced Prints	5 15
APT 345	Papermaking	5
APT 346	Art on Computers	5
APT 347	Print Topics	5
APT 441	Senior Prints	5 10
APT 442A	Prints	5
APT 496A	Prints Studio Practicum	3
APT 497B	Prints Studio Project	3

Must complete an exit survey with the School of Art.

#### Total minimum hours required: 192

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

#### Sculpture—Major code BF5126

All art students enter the program as General Art majors and must complete requirements in Studio Foundations and Art History before applying for major during their second year of study. General Academic courses are also required for completion of the BFA degree program.

#### General Academics

Years One-Four		
	Tier I English Composition	5
	Tier I Quantitative Skills	4-5
	Tier I Junior Composition	4
	Tier II Electives	30
	Tier III Elective (not needed before portfolio review)	4-5

#### Studio Foundations

Years One-Two		
ART 110	Seeing and Knowing the Visual Arts	4
ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
ART 117	Drawing: System and Color	4
ART 118	Drawing: Process and Synthesis	4
ART 211	Studio Concepts	4

#### Art History

Select three courses from:

AH 211, 212, 213 or AH 214	History of Art History of Non-Western Art	12
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#### Studio Requirements

	Five 200-level Studio Courses* (at least two sculpture courses required to apply for major)	25
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**Portfolio Review for Admission to Major** occurs during the sophomore year. Students must submit portfolios for review after the completion of the Studio Foundations Program and five 200-level studio courses. Consult area chair for details on the portfolio requirements in your area of interest.

#### Sculpture Studio Courses

Year Two		
ART 231A	Sculpture I	5
ART 231B	Sculpture II	5
Year Three		
ART 331A	Sculpture III	5
ART 331B	Sculpture IV	5
ART 331C	Sculpture V	5
Year Four		
ART 431A	Sculpture VI	5
ART 431B	Sculpture Workshop (take twice)	5-10
ART 496A	Sculpture Studio Practicum	3
APT 496B	Sculpture Studio Project	3
	Seven Studio Electives** (15 credits must be from 300-400 level)	35
	Art History Elective (300-400 level)	8

Must complete an exit survey with the School of Art.

#### Total minimum hours required: 192

\*Some of these credits will apply toward the 35 hours of required studio electives.

\*\*Some of these credits are gained prior to Portfolio Review.

## Art Minor

### Minor code ORARTM

The art minor is offered for nonmajors who wish to pursue study in art. To declare an art minor, consult with your major advisor and with a School of Art advisor. Approval from the College of Fine Arts dean's office is required. Minimum requirement of 2.75 overall g.p.a. required for admission. You must maintain a 2.75 g.p.a. in the minor.

#### Requirements for an art minor are:

ART 112	Foundations Photography	4
ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
Three of the following five:		12
AH 211, 212, 213	History of Art	
AH 214	History of Non-Western Art	
ART 110	Seeing and Knowing Visual Arts	
	Two 200- or 300-level art studio courses or two 300- or 400-level art history courses	8-10

Minimum hours required: 32

## School of Interdisciplinary Arts

### William F. Condee, Director

The School of Interdisciplinary Arts offers only the Ph.D. degree. Undergraduate course offerings may be used to complete Tier II, Tier III, or elective requirements or to obtain a minor in interdisciplinary arts.

### Minor in Interdisciplinary Arts

#### Minor code ORIART

##### Core Courses:

IART 117	Intro to Fine Arts	4
IART 118	Intro to Fine Arts	4
IART 150	Viewing Performance	2

At least five courses from the following. The courses must include at least two art forms:

IART/AH 211	History of Art	4
IART/AH 212	History of Art	4
IART/AH 213	History of Art	4
AH 214	History of Non-Western Art	4
AH 350	Prin. of Architecture	4
AH 351	Ancient Architecture	4
AH 352	Medieval Architecture	4
AH 353	Renaissance and Baroque Architecture	4
AH 354	19th- and 20th-Century Architecture	4
DANC 170	Viewing 20th Century Dance	4
DANC 351	Dance Cultures of World I	4
DANC 471	History of Dance I	4
DANC 473	History of Dance III	4
FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
IART/MUS 321	Music History	3
IART/MUS 322	Music History	3
IART/MUS 323	Music History	3
IART/THAR 270	Theater History I	4

IART/THAR 271	Theater History I	4
IART/THAR 272	Theater History I	4
IART/THAR 470	Tragedy	4
IART/THAR 471	Comedy	4
IART/THAR 472	Forms of Drama	4
THAR 473	Seminar in Theater History: Selected Topics	4

Minimum Credit hours required: 30

## School of Dance

### Madeleine Scott, Director

Our four year pre-professional training program leads to a Bachelor of Fine Arts within the liberal arts setting of Ohio University. We prepare the individual for future work in the field of dance and related professions by encouraging the realization of individual artistic potential through the integration of creative, physical, and intellectual processes. Our curriculum emphasizes modern dance choreography and performance and includes theoretical, historical, and practical studies in dance. We provide the general University student with studies in the practice, history, and aesthetics of dance. Through presentation of high-quality performances we contribute to the cultural environment of the University, community, and region.

Performances of student and faculty choreography are given regularly in Putnam Studio Theater and a variety of other theatrical spaces. Workshop performances, internships, and College of Fine Arts performance projects offer additional performance opportunities.

A visiting artist program enriches the curriculum during the academic year. Major figures in the field of dance teach, choreograph, hold special workshops, perform, and are engaged for residencies on campus.

Strong individual academic and professional advising characterizes the School of Dance. The development and progress of each dance major are carefully assessed by a faculty advisor. As a dance major or minor, you are expected to maintain at least a 3.0 g.p.a. in dance core work (modern and ballet technique and choreography) and a 2.7 g.p.a. overall in dance courses; if your work is found to be deficient, you may be placed on probation or advised to modify your program of study.

Scholarship auditions for incoming freshmen are held in November and January. Schedule an appointment well in advance by contacting the School of Dance or the Office of Admissions. All transfer students intending to major in dance are required to audition as part of the admission process. An appointment for an audition and information on proficiency requirements can be obtained by contacting the director of the School of Dance.

An honors tutorial program in dance is available for exceptionally talented and motivated students. This individualized program of study requires a distinctive combination of high school grades, test scores, teacher recommendations, and special achievements. Direct inquiries concerning eligibility to the School of Dance. If eligible, you must complete the application, audition, and interview processes by December 15.

### Admission Requirements

An audition is required for all students who plan to major or minor in dance. The audition is in the form of a dance class and does not require presentation of previously learned materials. If you wish to be considered for talent scholarships, you must audition by February 1; otherwise, an audition appointment can be made during the school year. Contact the School of Dance, 740.593.1826, for information. Though all prospective students are encouraged to attend auditions on the Ohio University campus, videotapes will be accepted under extenuating circumstances.

The School of Dance is a fully accredited member of the National Association of Schools of Dance.

### Major in Dance

#### Major code BF5151

##### Freshman: 50–60

DANC 090	Composition Lab	0
DANC 101ABC, 102ABC, 103ABC	Modern and Ballet Techniques/Composition	21
DANC 111	Music for Dance	2
DANC 170	View. 20th-Cent. Dance	4
DANC 231	Intro Dance Kinesiology	2
DANC 380	Practicum in Dance Prod.	1–3
	Tier I English composition (100 level)	5
	Tier I quantitative skills	4–5
	Tier II	5–9
	Electives	6–9

##### Sophomore: 48–60

DANC 090	Composition Lab	0
DANC 201ABC, 202ABC, 203ABC	Modern and Ballet Techniques/Composition	21
DANC 240	Pract. in Tchng. Dance	1
DANC 312	Music for Dance	3
DANC 331	Analysis of Dance Mvt.	4
DANC 380	Practicum in Dance Prod.	1–3
DANC 440	Pract. in Teaching Dance	2
DANC 441	Teaching Dance	3
	Tier II	10–15
	Electives	6–10

##### Junior: 49–55

DANC 090	Composition Lab	0
DANC 301ABC, 302ABC, 303ABC	Modern and Ballet Techniques/Composition	21
DANC 313	Dance Notation	3
DANC 380	Practicum in Dance Prod.	1–3
DANC 431	Dance Kinesiology Sem	2
DANC 440	Pract. in Tchng. Dance	2
DANC 443	Teaching Dance	2
DANC 471	History of Dance I	4
	English composition (300 level)	4
	Tier II	4–5
	Electives	6–10

##### Senior: 43–56

DANC 090	Composition Lab	0
DANC 351* or DANC 472*	Dance Cultures History of Dance II	4
DANC 401AB, 402AB, 403AB	Modern and Ballet Techniques	15
DANC 460	Senior Seminar	2
DANC 473	History of Dance III	4

DANC 480	Production Problems	3–6
	Tier III	4–5
	Electives	12–24

\*DANC 351 and DANC 472—offered alternate years.

Electives should include a choice of courses in philosophy, psychology, anthropology, studio art, art history, music performance, music history, theater history, acting.

**Total minimum hours required: 192**

### Minor in Dance

#### Minor code OR5151

A dance minor is designed for individuals majoring in other fields who wish, in the course of their college experience, to gain an understanding of the art of dance. This program may, however, be applied toward the dance major sequence. To become a dance minor, you must come to the School of Dance for an audition and advising. The first year of work is probationary. The minor program includes 30 credits, with a minimum of 4 credits selected from DANC 312, 313, 331, 351, 431, 441, 443, 471, 472, and 473. Program approval is required.

DANC 090	Composition Lab	0
DANC 101 ABC	Technique/Composition	7
DANC 102ABC	Technique/Composition	7
DANC 103 ABC	Technique/Composition	7
DANC 170	View. 20th-Cent. Dance	4
DANC 380	Practicum in Dance Prod.	1
	Dance electives	4–7

DANC 101, 102, and 103 must be taken sequentially within one academic year. Under exceptional circumstances and with faculty approval, other arrangements may be made.

## School of Film

### Charles Fox, Director

The School of Film, in conjunction with the Honors Tutorial College, offers exceptional students the opportunity for practical and scholarly study of film combined with a broad liberal arts education. The program culminates with an honors thesis and leads to the Bachelor of Fine Arts degree in film. Enrollment is limited; only ten students (2–3 per year) can be enrolled in this program at any given time.

### Admission Requirements

An applicant is expected to rank in the top ten percent of her/his high school class and to have a minimum ACT Composite score of 30 or a combined SAT score of 1300. Additional admission requirements include: (1) a current resume, (2) three letters of recommendation, (3) a writing sample, (4) a 500-word personal essay describing your passion for studying film, and—for all applicants interested in the production concentration—(5) a portfolio of creative work demonstrating significant accomplishments in any area of the fine arts.

### The Tutorial Program

There are five elements to the tutorial program in Film:

**1. Twelve individual tutorials on topics in film studies and film production** are required. Possible topics in production include all aspects of film and video pre production, production, and post production; screenwriting; producing; directing; and special topics in film/video production. Possible tutorial topics in film

studies include film theory, criticism, history (including history of experimental, documentary, and narrative film and video), historiography, film and society, research methods, and international cinemas. The honors thesis is also taken as a tutorial.

**2. Liberal Arts education.** The nature of the film medium requires a broad background in liberal arts and a multidisciplinary approach to learning. Students are expected to select 15 to 18 elective courses in film, history, English, telecommunications, comparative arts, foreign languages, and other disciplines.

**3. Production and scholarship courses in film.** Breadth of understanding can often best be achieved through practical courses in film and video production and courses in film scholarship. Because film is a collaborative art, you will join other students in the appropriate courses. In the second year, each tutorial student will select her/his area of specialization within one of two overall areas: (1) film studies or (2) film/video production.

**4. Minor area of specialization.** The student will plan a cognate minor consisting of four courses or sixteen credit hours outside the School of Film. These courses will be chosen according to an individual plan that you develop with the Director of Studies. Students wishing, for example, to enter a career in producing or arts administration should complete a cognate minor such as management, accounting, or business.

**5. The Honor Thesis in Film.** Each student is required to complete an Honors Thesis. This may take the form of a completed film, video, feature-length screenplay, or a major research thesis.

In addition, students are encouraged to seek internship opportunities in film and related fields.

The School of Film Committee (Director of Studies, Director of the School and two tutors) oversees the program. The Director of Studies assigns tutors in accordance with the student's interests and, in consultation with the student, develops an individual plan of study leading to the Bachelor of Fine Arts degree in Film.

#### Evaluation

Papers and creative work developed as part of each tutorial are discussed and evaluated by the tutor. The Director of Studies also consults with tutors about your progress, and the strengths and weaknesses of individual students so that subsequent tutorials can address problems and build on existing strengths. A description of each tutorial as well as an informal evaluation is filed by the tutor in the college office and School of Film office at the close of the quarter.

#### Honors Thesis

Tutorial Students prepare and defend an original thesis during the fourth year. This may be either a written thesis or a studio thesis resulting in a film, video, or screenplay. The topic and scope of the thesis is approved by the tutorial committee no later than the end of Fall Quarter in the third year of the student's program. The thesis should reflect the student's interest in her/his chosen area of concentration.

#### Application

The deadline to apply for admission is December 15. Please submit all artwork on labeled slides or videotape; the School cannot accept original artwork.

### Sample Programs

#### Film Production Option

##### Year 1

Film History I, II, III	12
Tutorials (3)	12
Electives	20
Minor Cognate	4
<b>Subtotal</b>	<b>48 hours</b>

##### Year 2

International Cinemas I, II	8
Production I, II, III	8
Tutorials (3)	12
Electives	9
<b>Subtotal</b>	<b>48 hours</b>

##### Year 3

Adv. Cinematography	4
Adv. Editing	4
Sound	4
Tutorials (3)	12
Electives	16
Minor Cognate	8
<b>Subtotal—48 hours</b>	

##### Year 4

Tutorials (including Honors Thesis)	30
Electives	18
<b>Subtotal</b>	<b>48 hours</b>

#### Program Total—192 hours

#### Film Scholarship Option

##### Year 1

Film History I, II, III	12
Tutorials (3)	12
Electives	20
Minor Cognate	4
<b>Subtotal</b>	<b>48 hours</b>

##### Year 2

International Cinemas I, II	12
Theory and Criticism I, II	8
Tutorials (3)	12
Electives	12
<b>Subtotal</b>	<b>48 hours</b>

##### Year 3

Seminar I, II, III	12
Tutorials (3)	12
Electives	16
Minor Cognate	8
<b>Subtotal</b>	<b>48 hours</b>

##### Year 4

Tutorials (including Honors Thesis)	30
Electives	18
<b>Subtotal</b>	<b>48 hours</b>

#### Program Total—192 hours

### Minor in Film

#### Minor code ORFILM

The School of Film offers a 30 credit-hour minor for those students majoring in other fields but wish to expand their knowledge of film.

Students wishing to declare a minor in film must (1) receive permission from the head of undergraduate studies in film and (2) receive permission from the Dean's office in the College of Fine Arts to pursue the program.

Any student wishing to declare a minor in film must have a minimum g.p.a. of 2.5.

#### Core Courses (required):

FILM 201	Introduction to Film I	4
FILM 202	Introduction to Film II	4
FILM 203	Introduction to Film III	4
FILM 340	Film Techniques	4
FILM 343	Scriptwriting	4

#### Film Electives (at least 10 credit hours from the following):

FILM 421	International Film I	4
FILM 422	International Film II	4
FILM 423	International Film III	4
FILM 431	Film History I	4
FILM 432	Film History II	4
FILM 433	Film History III	4
FILM 451	Theory I	4
FILM 471	Film Topics Seminar	1-5
FILM 472	Film Topics Seminar	1-5
FILM 473	Film Topics Seminar	1-5

Minimum hours required: 30

## School of Music

### Meryl Mantione, *Director*

The curricula of the School of Music, culminating in the Bachelor of Music degree, prepare you for a career in teaching, music therapy, composition, Academic Research, or performance. The School of Music provides individual applied study in vocal and instrumental music and offers a wide range of courses in the fields of theory, composition, electronic music, music history and literature, music education, and music therapy. There are opportunities for individual participation in student recitals and for performing experience in various ensembles such as the Choral Union, University Singers, The Singing Men of Ohio, Women's Chorale, Opera Theater, Symphony Orchestra, Wind Ensemble, Concert Band, Marching Band, jazz ensembles, and many small chamber ensembles. Performing groups are open to all students enrolled in the University, and selection is determined by audition.

The school is a member of the National Association of Schools of Music. Entrance and graduation requirements are in accordance with the standards set by the association.

The Athens Community Music School, a unit within the School of Music, provides instruction for precollege-age students, University students who are not music majors, and other adults. Private instruction is offered in all instruments and voice. Teachers include faculty members, graduate students, and advanced undergraduates. Details are available from the director of the Athens Community Music School.

The School of Music offers an approved minor in music for nonmajors who wish to pursue the study of music.

Requirements for all music majors include the following: proficiency on a major instrument and secondary piano, ensemble participation, music theory (must receive a "C"

or better to proceed to next level of Music Theory), music history, and MUS 090 Concert/Recital Attendance. Specific requirements are outlined in the School of Music Handbook.

The following course plans outline a practical sequence of required courses to help you plan your course of study. You must complete Tiers I, II, and III of the University General Education Requirement. (See "Graduation Requirements.")

### Admission Requirements

If you are a freshman or transfer student who intends to major in music, you are required to audition with your major instrument or voice and to take a theory placement test. An interview is also required for prospective music education and music therapy majors. The audition, interview, and theory placement test are scheduled on the same day. You may obtain specific dates and information from the School of Music office.

### Bachelor of Music in Performance

The following curricula are designed for students demonstrating exceptional talent, technical competence, and the ability to interpret advanced repertoire on their instrument or voice. You are prepared to perform repertoire from all periods available for your instrument. You are required to participate in solo, chamber music, and large ensemble performances. The Bachelor of Music prepares graduating students to establish private teaching studios, to engage in professional performance, and to study at the graduate level. An emphasis in pedagogy is available for piano majors primarily interested in teaching.

#### Piano

##### Major code BM5100

##### Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro Music Hist. and Lit.	4
MUS 341	Piano	12
	Performance group	3
	Tier I English comp., quant. skills	9-10
COMS 101	Fund. of Human Comm.	4
	Tier II Electives	8-9

##### Sophomore

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 341	Piano	12
	Performance group	3
	Electives	9

##### Junior

MUS 090	Performance Lab	0
MUS 341	Piano	12
MUS 421C*	Chamber Music Lit	3
MUS 450	Accompanying	3
MUS 455	Conducting	3
MUS 497	Recital	1
	Music theory/lit. electives	4-6
	Performance Group	3
	Electives	11
	English comp. (300 level)	4

<b>Senior</b>			Tier III	4–5
MUS 090	Performance Lab	0	Electives	6
MUS 341	Piano	12	Keyboard skills proficiency exam is required.	
MUS 457G	Early Keyboard Rep.	2	<b>Minimum credit hours required for graduation: 195</b>	
MUS 457K, L	Piano Repertoire	4	<b>Voice</b>	
MUS 458G, H, I	Piano Pedagogy	6	<b>Major code BM5101</b>	
MUS 497	Recital	2	<b>Freshman</b>	
	Performance group	3	MUS 090	Performance Lab 0
	Tier II electives	12–15	MUS 101, 102, 103	Theory I, II, III 9
	Tier III	4–5	MUS 104, 105, 106	Dictation and SS I, II, III 3
	Elective	3–5	MUS 125	Intro to Music Hist. and Lit. 4
*May be taken in either the junior or senior year. Keyboard skills proficiency exam is required.			MUS 340	Voice 12
<b>Minimum credit hours required for graduation: 194</b>			MUS 341 or 141, 142, 143	Piano Class Piano 6
<b>Piano with an Emphasis in Pedagogy</b>			MUS 375A, B	Eng., Italian Diction 2
<b>Major code BM5104</b>				Performance group 3
<b>Freshman</b>			ITAL 111, 112	Italian 8
MUS 090	Performance Lab	0		Tier I English comp., quant. skills 9–10
MUS 101, 102, 103	Theory I, II, III	9		Tier II elective 4–5
MUS 104, 105, 106	Dictation and SS I, II, III	3	<b>Sophomore</b>	
MUS 125	Intro to Music Hist. and Lit.	4	MUS 090	Performance Lab 0
MUS 341	Piano	12	MUS 201, 202, 203	Theory IV, V, VI 9
	Performance group	3	MUS 204, 205, 206	Dictation and SS IV, V, VI 6
	Tier I English comp., quant. skills	9–10	MUS 340	Voice 12
COMS 101	Fund. of Human Comm.	4	MUS 341 or 241, 242, 243	Piano Class Piano 6
	Tier II Electives	8–9	MUS 375C	German Diction 1
<b>Sophomore</b>			MUS 457D	Solo Repertoire 1
MUS 090	Performance Lab	0		Performance group 3–6
MUS 201, 202, 203	Theory IV, V, VI	9	GER 111, 112	German 8
MUS 204, 205, 206	Dictation and SS IV, V, VI	6		Tier II elective 4–5
MUS 321, 322, 323	Music History	9	<b>Junior</b>	
MUS 341	Piano	12	MUS 090	Performance Lab 0
MUS 370	Practicum	6	MUS 321, 322, 323	Music History 9
	Performance group	3	MUS 340	Voice 12
<b>Junior</b>			MUS 341 or 359, 360, 361	Piano Class Piano 6
MUS 090	Performance Lab	0	MUS 375D	French Diction 1
MUS 341	Piano	12	MUS 457D	Solo Repertoire 1
MUS 372	Adv. Functional Skills	2	MUS 497	Recital 1
MUS 458G, H, I	Piano Pedagogy	6		Music theory/lit elective 2–3
	Music theory/lit electives	4–6		Performance group 6
	Performance group	3	FR 111, 112	French 8
PSY 101	General Psychology	5		English composition (300 level) 4
PSY 275	Educational Psych.	4		Tier II electives 8–10
	English composition (300 level)	4	<b>Senior</b>	
	Tier II elective	4–5	MUS 090	Performance Lab 0
	Elective	3	MUS 340	Voice 12
<b>Senior</b>			MUS 421F	Literature of Opera 3
MUS 090	Performance Lab	0	MUS 455, 456B	Conducting 6
MUS 341	Piano	12	MUS 457D	Solo Repertoire 1
MUS 370	Practicum	6	MUS 458D	Vocal Pedagogy 2
MUS 457G	Early Keyboard Rep.	2	MUS 497	Recital 2
MUS 457K, L	Piano Repertoire	4		Music theory/lit elective 2–3
MUS 450	Accompanying	3		Performance group 6
MUS 455	Conducting	3		Electives 6
MUS 458E	Class Piano Pedagogy	2		Tier II elective 4
MUS 497	Recital	2		Tier III 4–5
	Performance group	3	Demonstration of piano proficiency is required.	
	Tier II elective	4–5	<b>Minimum credit hours required for graduation: 216</b>	



**Organ****Major code BM5102****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 343	Organ	12
	Performance group	3
	Tier I English comp., quant. skills	9-10
COMS 101	Fund. of Human Comm.	4
	Tier II electives	8

**Sophomore**

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 343	Organ	12
	Performance group	3
	Electives	3-4

**Junior**

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and	Counterpoint Conducting Elective	9
MUS 497	Recital	1
	Performance group	3
	Music elective	6
	Elective, French or German	12
	English composition (300 level)	4

**Senior**

MUS 090	Performance Lab	0
MUS 343	Organ	12
MUS 407A, B, C or MUS 455, 456 and	Counterpoint Conducting Elective	9
MUS 421E	Literature of Organ Music	3
MUS 497	Recital	2
	Performance group	3
	Tier II electives	9-10
	Tier III	4-5
	Electives	6

Minimum credit hours required for graduation: 193

**Orchestral Instruments****Strings, Woodwinds, Brass, or Percussion****Major code BM5103****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	12
MUS 341 or MUS 141, 142, 143	Piano Class Piano	6
	Band/orchestra	6
MUS 254*	Chamber Music	3
	Tier I English comp., quant. skills	9-10

**Sophomore**

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9

MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 254	Chamber Music	3
MUS 321, 322, 323	Music History	9
MUS 341 or MUS 241, 242, 243	Piano Class Piano	6
	Major instrument	12
	Band/orchestra	6

**Junior**

MUS 090	Performance Lab	0
	Major instrument	12
	Music theory and literature electives	9
MUS 455, 456A	Conducting	6
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 497	Recital	1
	English composition (300 Level)	4
	Tier II electives	12

**Senior**

MUS 090	Performance Lab	0
	Major instrument	12
MUS 457, 458	Solo Repertoire, Pedagogy	3
	Band/orchestra	6
MUS 254	Chamber Music	3
MUS 304	Instrumentation	3
MUS 497	Recital	2
	Tier II electives	12-14
	Tier III	4-5
	Elective	2

\*12 quarters chamber music required for string majors; 9 quarters for other instrumentalists.

Demonstration of piano proficiency is required.

Minimum credit hours required for graduation: 203

## Bachelor of Music in Music Theory or Composition

The curriculum is designed to prepare exceptionally talented students for careers as theorists or composers or for continued study or graduate work in theory or composition. The curriculum focuses on basic musicianship skills; analytical, aural, and writing skills; compositional facility and technique; and the acquisition of a historical perspective on, and basic knowledge of, technological innovations in the field.

**Theory****Major code BM5116****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier I English comp., quant. skills	9-10
COMS 101 or COMS 103	Fund. of Human Comm. Public Speaking	4
	Electives	8-10

**Sophomore**

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9

MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier II electives	12-15
MUS 413	Intro to Electronic Music	2
<b>Junior</b>		
MUS 090	Performance Lab	0
MUS 309	Composition	6
MUS 407A, B, C	Counterpoint	9
MUS 415	Microcomputer Appl.	3
	Major instrument	6
MUS 341 or 359, 360, 361	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	6-8
<b>Senior</b>		
MUS 090	Performance Lab	0
MUS 304, 305, 306	Instrumentation, Orchestration I	6
MUS 402A, B, C	Styles	9
MUS 421	Music Lit. Electives	9
MUS 455	Conducting	3
	Performance group	3
	Tier III elective	4-5
	Electives	6-8
MUS 414	Senior Thesis	2
MUS 498	Independent Project	4

<sup>1</sup>If piano is the major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

<sup>a</sup>by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

<sup>b</sup>by taking 3 quarters (2 hours per quarter) of either 261 String Methods and Materials or 263 Wind and Percussion Methods and Materials, or a combination of both.

Demonstration of piano proficiency is required.

**Minimum credit hours required for graduation: 202**

### Composition

#### Major code BM5105

##### Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Mus. Hist. & Lit.	4
MUS 178	Computer Skills for Musicians	2
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier I English comp., quant. skills	9-10
COMS 101 or COMS 103	Fund. of Human Comm. Public Speaking	4
	Tier II electives	8-10

##### Sophomore

MUS 090	Performance Lab	0
	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
MUS 413	Intro to Electronic Music	2

MUS 415	Microcomputer Applications	3
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier II electives	8-10

### Junior

MUS 090	Performance Lab	0
MUS 310, 311, 312	Composition	6
MUS 407A, B, C	Counterpoint	9
	Major instrument	6
	Performance group	3
MUS 341 or 359, 360, 361	Piano Class Piano <sup>1</sup>	6
	English composition (300 level)	4
	Tier II electives	8-10
	Elective	4-5

### Senior

MUS 090	Performance Lab	0
MUS 304, 305	Instr. Orch. I	6
MUS 402A, B, C	Styles	9
MUS 309	Composition	6
MUS 414	Senior Thesis	2
MUS 421	Music Lit. Electives	9
MUS 455	Conducting	3
	Performance group	3
	Tier III	4-5
	Electives	3

<sup>1</sup>If piano is your major instrument, the secondary instrumental requirement may be satisfied by one of the following methods:

<sup>a</sup>by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

<sup>b</sup>by taking 3 quarters (2 hours per quarter) of either 261, String Methods and Materials, or 263, Wind and Percussion Methods and Materials, or a combination of both.

Demonstration of piano proficiency is required.

**Minimum credit hours required for graduation: 200**

## Bachelor of Music in Music History and Literature

### Major code BM5114

The curriculum is designed to provide a broad foundation in music history, theory, performance, and research in music for students interested in these and related areas at the graduate level. While diversified in its academic and performance components, the curriculum sufficiently emphasizes each, giving you a variety of choices in selecting specialization at higher degree levels.

##### Freshman

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier I English comp., quant. skills	9-10
	English electives	10
COMS 101	Fund. of Human Comm.	4
MUS 498	Independent Project*	1

**Sophomore**

MUS 090	Performance Lab	0
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 321, 322, 323	Music History	9
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	Tier II electives	12-15

**Junior**

MUS 090	Performance Lab	0
MUS 421	Music Lit. Electives	9
	Theory electives	6-9
	Modern languages	12
	Major instrument	6
MUS 341 or 359, 360, 361	Piano Class Piano <sup>1</sup>	6
	Performance group	3
	English composition (300 level)	4
	History electives	8
MUS 498	Independent Project*	2

**Senior**

MUS 090	Performance Lab	0
MUS 414	Senior Thesis	2
MUS 421	Music Lit. Electives	9
MUS 428	Jazz History	3
MUS 455	Conducting	3
	Modern languages	12
	Performance group	3
	Tier II electives	8-10
	Tier III	4-5

<sup>1</sup>If piano is the major instrument, the secondary instrumental requirement may be satisfied by taking applied lessons on an instrument other than piano for 6 quarters (1 hour per quarter).

\*Independent Project determined in consultation with music history chair. Demonstration of piano proficiency is required

**Minimum credit hours required for graduation: 206**

**Bachelor of Music in Music Education**

To specialize in music education, you must choose one of two areas of concentration: instrumental music education or choral/general music education. Upon completion of the program and State Board of Education requirements, the music education candidate will receive an Ohio Multi-Age License for teaching music in the public schools.

**Choral Emphasis****Major code BM5106****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4
MUS 163	Intro to Music Education	2
	Major instrument <sup>1</sup>	6
MUS 178	Computer Skills for Musicians	2
	Minor instrument (see music handbook)	6
	Performance group	3-6
COMM 193	Fund. of Public Spk.	4
	Tier I English comp., quant. skills	9-10

**PSY 101****Sophomore**

MUS 090	Performance Lab	0
MUS 179	Technology for Music Ed.	2
MUS 182	Rec. Mus. Instr. and Mat.	3
	Major instrument <sup>1</sup>	6
	Minor instrument (see music handbook)	6
	Performance group	3-6
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
EDTE 200	Learning Human Growth and Dev.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
	Tier II electives	8-10

**Junior**

MUS 090	Performance Lab	0
MUS 263A	Perc. Meth. Classes	2
MUS 321, 322, 323	Music History	9
	Music History Elective	3
MUS 363	Secondary Sch. Instr. Methods and Mat.	3
MUS 364	Sec. Choral Techniques	3
MUS 366	Teach. Mus. Elem.	3
MUS 455, 456B	Conducting	6
MUS 468	Gen. Music in JHS	3
	Major instrument <sup>1</sup>	6
	Minor instrument (see music handbook)	6
	Performance group	3-6
EDSE 350	Secondary School Planning and Inst.	4
EDSE 351	Secondary Sch. I Teaching and Learning	4
EDTE 371B	Inst. Adapt. for Learners with Excep. and Diverse Needs (see Art Ed. section)	3
	English composition (300 level)	4

**Senior**

MUS 090	Performance Lab	0
MUS 261A or MUS 261B	Uppr Strings Methods & Mat Lower Strings Methods & Mat	2
MUS 263E	Trumpet Methods & Mat	2
MUS 263I	Clarinet Methods & Materials	2
	Music Theory Elective	3
MUS 366B	Early Child. Mus. Ed.	3
	Performance group	2-4
MUS 458D	Vocal Pedagogy	2
EDCS 301	Educ. and Cult. Diversity	3
EDCS 400	School, Society, and the Professional Educator	4
EDPL 461, 463, 465	Student Teaching	16
	Tier III	4
	Elective	5

<sup>1</sup>Major instrument may be voice, piano, or organ. Students who have voice as the major instrument must elect piano as their secondary instrument. Students who have piano or organ as the major instrument must elect voice as their second instrument

**Minimum credit hours required for graduation: 208**

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

**Instrumental Emphasis****Major code BM5107****Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist. and Lit.	4

MUS 163	Intro to Music Education	2
MUS 178	Computer Skills for Musicians	2
COMS 103	Fund. of Public Spkg.	4
PSY 101	General Psychology	5
	Major instrument	6
MUS 341 or 141, 142, 143	Piano Class Piano	6
	Performance group	3-6
	Tier I English comp., quant. skills	9-10

**Sophomore**

MUS 090	Performance Lab	0
MUS 179	Technology for Music Ed.	2
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205, 206	Dictation and SS IV, V, VI	6
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	4
EDTE 200	Learning, Human Growth, and Dev.	6
EDTE 201	Char. of Learners with Exceptionalities	3
EDTE 202	Field Exp. in Education	2
	Major instrument	6
MUS 341 or 241, 242, 243	Piano Class Piano	6
	Performance group	3-6
	Tier II electives	4-5

**Junior**

MUS 090	Performance Lab	0
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	4
MUS 304	Instrumentation	3
MUS 321, 322, 323	Music History	9
MUS 362, 362L	Teach. Inst. Mus. Elem/MS	4
MUS 363	Second, School Instr. Meth. and Mat.	3
MUS 455, 456A	Conducting	6
MUS 464	Marching Band Tech.	2
EDCS 301	Educ. and Cult. Diversity	3
EDTE 3718	Inst. Adapt. for Learners w/ Excep. and Diverse Needs (see Art Ed. section)	3
EDSE 350	Secondary Sch. Planning and Instruction	4
EDSE 351	Secondary Sch. Teaching and Learning	4
	Major instrument	6
	Music education elective	2
	Performance group	3-6
	English composition (300 level)	4

**Senior**

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 261 or 263	Instr. Meth. Classes (2 credits each)	8
MUS 366, 366A, 366B, 468	Electives	5
MUS 465	Jazz Ensemble Methods	2
EDCS 400	School, Society, and the Professional Educator	4
EDPL 461, 463, 465	Student Teaching	16
	Performance group	2-4
	Tier III	4-5

**Minimum credit hours required for graduation: 207**

Demonstration of piano proficiency is required. See the *School of Music Handbook* for a complete statement concerning requirements.

**Bachelor of Music in Music Therapy****Major code BM5115**

The curriculum attracts students desiring to pursue a career in music therapy, combining musical talent and interest in the behavioral sciences. The program offers a strong practicum component leading to a six-month internship and meets the curricular guidelines established by the American Music Therapy Association. Coursework prepares you for clinical placement in medical, educational, and community health settings.

**Freshman**

MUS 090	Performance Lab	0
MUS 101, 102, 103	Theory I, II, III	9
MUS 104, 105, 106	Dictation and SS I, II, III	3
MUS 125	Intro to Music Hist and Lit	4
MUS 141, 142, 143	Class Piano <sup>1</sup>	6
MUS 178	Computer Skills for Musicians	2
MUS 180	MT Practicum I	1
MUS 181	Intro to Music Therapy	3
MUS 182	Rec. Mus. Instr. and Mat.	3
	Major instrument	6
	Performance group	3
	Tier I English composition	5
PSY 101	General Psychology	5
PSY 120	Statistics	5

**Sophomore**

MUS 090	Performance Lab	0
MUS 147, 148	Class Voice	4
MUS 165	Class Guitar <sup>2</sup>	2
MUS 201, 202, 203	Theory IV, V, VI	9
MUS 204, 205	Dictation and SS IV, V	4
MUS 241, 242, 243	Class Piano <sup>1</sup>	6
MUS 280	MT Practicum II <sup>3</sup>	3
MUS 281	Obs., Eval., Res. in MT	3
MUS 282	MT Activ. for Classroom and Clinic	3
	Major instrument	6
EDSP 271	Intro Educ of Except Children and Youth	4
PESS 115, 275	Rhythmics, ES Rhythm and Dance or Dance Elective	2
	Performance group	3
HCCF 160 or PSY 273	Intro to Child Devel. Child and Adol. Psy	4

**Junior**

MUS 090	Performance Lab	0
MUS 179	Computer Skills for Music Ed	2
MUS 322, 323	Music History	6
MUS 359, 360, 3611	Class Piano, Organ, Keyboard elective	3-6
MUS 366	Teach. Mus. Elem.	3
MUS 380	MT Practicum III <sup>3</sup>	3
MUS 381, 382	Psych. Found. Music I, II	6
MUS 455	Conducting	3
MUS 481	MT Prin. and Tech. I	3
	Performance Group	3
HSL5 108	Intro to Communication Disorders	5
PSY 332	Abnormal Psychology	4
	Music ed., theory, or history elective	2-3
	Tier I Eng. comp.—tech. writing (300 level)	4

**Senior**

MUS 090	Performance Lab	0
MUS 263	Perc. Meth.	2-4
MUS 480	MT Practicum IV <sup>3</sup>	3-6
MUS 482, 483	MT Prin. and Tech. II, III	6
MUS 489	Clin. Training in MT	1
BIOL 101 or BIOS 103	Principals of Biology Human Biology	5
BIOS 302	Human Anatomy	6
EDSP	Behavioral sci. electives <sup>4</sup>	10
	Tier III elective	4
	Electives	8

**Minimum credit hours required for graduation: 200**

The music therapy curriculum is designed to meet the requirements of the School of Music and the American Music Therapy Association (AMTA). In addition to the regular coursework, you must complete MUS 489 Clinical Experience (six-month internship) at a clinical facility approved for the training of music therapists before graduation. Upon graduation, you are eligible to take the board certification exam to receive national credentials as a board certified music therapist (MT-BC) with CBMT.

<sup>1</sup>Secondary instrument is piano (class) for all students whose major is not piano. Piano principals do not have a required second instrument.

<sup>2</sup>Guitar proficiency test available for course waiver.

<sup>3</sup>1-2 hours depending on practicum hours.

<sup>4</sup>Consult University-Wide Graduation Requirements section for EDSP/behavioral science electives that meet Tier II requirements.

**Minor in Music****Minor code ORMUSI**

The music minor is offered for nonmajors who wish to study music. To pursue a minor in music, you must receive permission from the associate director of the School of Music. You must audition for and be accepted into a performance ensemble before declaring and receiving final approval from the College of Fine Arts dean's office.

**Theoretical Studies**

MUS 100, 101A, 102A	Music Theory*	9
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**History and Literature**

MUS 120	Intro to Music Literature	3
or MUS 125	Intro to Mus. Hist. and Lit.	4

**Two courses selected from the following:**

MUS 124	Language of Rock Music	3
MUS 322	Music History	3
MUS 323	Music History	3
MUS 427	Folk Music	3
MUS 428	Jazz History	3

**Ensemble**

Ensemble (3 quarters)	3
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**Electives**

Courses in music totaling a minimum of 9 credit hours (applied music is strongly encouraged subject to studio availability)

**Minimum hours required: 30**

\*MUS 101, 102, and 103 may be substituted providing you achieve a satisfactory score on the Freshman Music Theory Entrance Examination and have the approval of the head of the Music Theory Division.

## School of Theater

**Robert St. Lawrence, Director**

Welcome to the School of Theater's catalog section. The School of Theater has had a longstanding track record of success with its graduates. Alumni from our undergraduate programs have gone on to very successful careers in the professional theater, television, and film. The degree programs also give you the competitive edge to enter the best graduate schools in theater. The undergraduate theater programs are National Association of Schools of Theater approved and designed for completion over a period of four years.

The undergraduate theater major at Ohio University experiences a blend of intensive training in an area of concentration with core courses in theater studies. These are coordinated with general education liberal arts courses leading to a professionally oriented Bachelor of Fine Arts degree through the College of Fine Arts.

The School of Theater advises theater majors to complete the University's general education requirements in a manner that broadens the individual student's perspective and worldview. Within the discipline of theater, all undergraduate students enroll in core courses that examine the literature and history of theater, the role of theater in society, and the relationship of theater to other disciplines in the arts.

Production activities are considered crucial to the total curriculum planning of a theater major. Majors register each quarter for a credit-bearing practicum in production. In the first year of training, this involves participation in productions through technical and management assignments. Sophomores, juniors, and seniors have the opportunity to participate as a performer, technician in lighting or sound, designer, or in theater or stage management. Some practicum assignments are available for the summer at Monomoy Theater in Cape Cod, which is affiliated with Ohio University.

Your progress is evaluated quarterly by your advisor and faculty in your training area. All theater majors are required to attain a minimum grade of C in any theater course required for graduation. Unsatisfactory progress may result in academic probation, recommendation for transfer to another sequence or degree within the school, modification of the program, or denial of further enrollment as a degree candidate in the School of Theater.

A minor or second major is possible in some cases if you have used careful advising procedures and made intelligent use of the elective options and General Education requirements. Highly motivated and talented students can pursue their degree work in the School of Theater through the Honors Tutorial College, if the tutorial mode of instruction is appropriate for the particular student.

**Admission Requirements**

Once you have been admitted to Ohio University, you may enter the School of Theater as a general theater major. For scholarship consideration, auditions and interviews are conducted during the winter quarter of each year for students considering entrance the following fall. You are assigned a faculty advisor when you enroll.

### Procedure for Admission BFA Programs

At the end of the freshman year, you are expected to declare a degree program. Under normal circumstances, you must complete all the 100-level theater core requirements to be considered for entry into a degree program. Students audition, interview, or present portfolios for entry into the Bachelor of Fine Arts programs (performance, management, playwriting, or production design and technology). You may also enroll in a course of study leading to the Bachelor of Arts degree through the College of Arts and Sciences.

**Provisional acceptance into BFA programs:** End of freshman year.

After acceptance into one of these programs, retention is based on periodic review of the student's progress, with a major review at the end of the sophomore year.

#### Theater Core Courses (Required of all B.F.A. majors)

THAR 090	Lunchbag Theater Seminar Series	0
THAR 101	Intro to Profession	1
THAR 111*	Acting Improvisation	2
THAR 110	Intro to Performance	2
THAR 112*, or THAR 213	Intro to Perf. Warm-up Acting Fundamentals II	2
THAR 130	Intro to Design	3
THAR 131	Intro to Stagecraft	3
THAR 151	Fundamentals of Playwriting	3
THAR 171	Play Analysis	3
THAR 172	Elements of Performance	3
THAR 270, 271, 272	Theater History I, II, III	12
THAR 420	Directing	4
	Two seminars from THAR 470 series	8
	Two English courses at the 200 level or above	8

\*For students interested in auditioning for the performance program. Students may fulfill the acting component of the theater core by completing 110, 111, and 112 or completing 111 and 213.

#### Practicum

Freshman	Two 100-level practica Two courses, 3 credit hours each (winter, spring)	6
Sophomore	Three 200-level practica Three courses, 2 credit hours each (fall, winter, spring)	6
Junior	Two 300-level practica Two courses, 3 credit hours each (any quarters)	6
Senior	Three 400-level practica Three courses, 2 credit hours each (fall, winter, spring) in area of emphasis	6

#### Minimum total practicum credits: 24

All majors are required to enroll for Lunchbag Theater Seminar (THAR 090) each quarter of residence.

#### Liberal Arts Requirements for Theater Majors

In addition to the Tier I, II, and III requirements, all majors in the School of Theater are required to take two English courses at the 200 level or above. Two Shakespeare courses are strongly advised and may be required in a specific program. (Tier I junior composition does not fulfill this requirement.)

**Total: 78**

#### Minimum Grade Requirement

All theater majors are required to attain a minimum grade of C in any theater course required for graduation.

#### Electives

Distribution of elective hours will vary depending upon degree requirements of a particular area. You are

encouraged to use your elective choices in a manner that expands upon the liberal arts experience, particularly with choices in the areas of literature, philosophy, history, and psychology. If you are in acting, you also are advised to strengthen your personal talents in the areas of music, dance, and art.

## Theater Performance (Acting) Major

### Major code BF5161

*(Admission by application and audition only.)*

The B.F.A. in theater performance is a rigorous program fostering creative, cognitive, and artistic skills. It is intended to advance the education and training of motivated, curious, self-reliant, adaptable theater artists capable of dealing with all aspects of theater and contributing to the relationship between theater and society. Theater and performance serve as the basis of the undergraduate fine arts education. Theater is approached technically as craft and art, but also as a way of looking at, interpreting, organizing, and expressing one's ideas and thoughts. We seek serious, disciplined students interested in demanding technical training, who want the art of theater and performance to be at the core of their education.

Formal application and audition into the Theater Performance Program (TPP) takes place during the freshman year. Transfer students from other programs and institutions are accepted provided they can meet the requirements of the program, the school, and University General Education.

In addition to the University and theater core requirements, you are required to include additional electives from a broad range of areas and to maintain minimum academic and artistic standards. Tier II classes can be counted toward meeting these requirements. The B.F.A. in performance fosters diversification within the theater curriculum and in disciplines essential to a liberal education. Careful and consistent faculty supervision and advising are an integral part of the program.

#### Preparation for Admission to TPP

Freshman performance classes emphasize preparation and examination, i.e., preparation for the audition into the TPP and examination of your skills, interests, and talents. Assisted by an assigned faculty advisor, you may select coursework designed to allow broad exposure to diverse courses in the University while building a strong foundation in acting.

During the freshman and sophomore years, you will complete most of the Tier I and II University requirements as well as the freshman and sophomore components of the theater core. After your freshman year (or first quarter of residency in the case of a transfer student), you are eligible to audition for all school productions. Required coursework in acting is available to theater majors who do not join the performance program.

#### Transfer Students

Though it is rare to accept a transfer beyond the sophomore year, transfer students should be prepared to present a transcript, resume and a formal audition as soon as possible. After acceptance to the University, program acceptance and placement will depend upon assessment by the faculty of the candidate's past training and experience and the candidate's potential to fulfill our programmatic

requirements. In most cases, transferring students should be prepared to expect some foundation course work in their programs.

### Theater Performance Program

The B.F.A. in theater performance offers a curriculum of rigorous technique instruction with an emphasis on international and ensemble theater. Complementing a faculty of working professionals are an important visiting artist program and a developing internship program that includes internships in the United States and abroad. In your senior year, you are required to complete your practicum requirements in acting. The culminating experiences of the B.F.A. degree program are three quarters of acting practicums and the senior project.

Required studio performance courses are the core of the program at all three year levels. The sophomore year is dedicated to the acting foundation and the junior year to classical ensemble, leading to a senior year that emphasizes new work from original scripts to ensemble collaboration. There is programmatic interaction with the MFA programs in Directing, Playwriting, and Acting.

There is constant communication among the faculty to evaluate your progress, confirm individual progress decisions, and resolve any issues germane to your success in the program. If you are struggling academically or programmatically, you may receive a letter of concern or be placed on probation. Continued concern indicates doubt about the appropriateness of your continuation in the TPP.

### Summary of Minimum Requirements

Sophomore Year Acting Ensemble Foundation		20
THAR 210	Acting I	4
THAR 211	Acting II	4
THAR 212	Acting III	4
THAR 216	Intro to Movement	2
THAR 217	Intro to Voice	6
Junior Year Classical Ensemble		25
THAR 310	Audition Technique and Practice	3
THAR 312	Scene Study	4
THAR 314	Theater Performance: Selected Topics	3
THAR 316	Movement Theater I (taken twice)	6
THAR 317A, B, C	Voice for the Stage I, II, III	9
Senior Year Ensemble		21
THAR 410	Scene Study: Selected Topics	4
THAR 411	Acting IV	3
THAR 414	Acting V	3
THAR 415*	Acting Practicum	6
THAR 416	Movement Theater II	2
THAR 417	Advanced Voice Training	2
THAR 418	Senior Project	2
<b>Total Minimum Requirements</b>		<b>67</b>

\*In addition to theater core requirements

### Additional Electives

You are required to include electives in your program plan and are encouraged to choose from the areas listed below. Your advisor will monitor the progress of this requirement.

Foreign Language/Culture  
 Third World Culture, International Studies  
 Philosophy, including, but not limited to, philosophy of art  
 Anthropology/ Political Science/History  
 Literature (non-dramatic)  
 Music and Music History  
 Studio Art and Art History

## Management

(stage management and theater management)

Major code BF5167

The purpose of the management program (stage management and theater management) is to prepare students for entry into the professional theater as a stage manager and in the business side of theater. The internship with a theater organization is an important part of the program, because the students will use this to make contacts for their entry into the professional theater. In addition to select courses in the management and theater areas, the program provides practical experience to develop techniques, skills, and insight in stage management, production stage management, and the business side of theater. The independent study and practicum courses will be used for the student to specialize in stage management or theater management by assigning students projects in their area of interest. During the first two years, you should complete much of the theater core and University general education requirements to gain a broad exposure to all areas of theater.

In addition to the course work, students will have ongoing guidance, counseling, and evaluation from their advisor. The advisor will help the student track their progress in meeting the necessary goals for entry into the stage management profession. Part of the process will include an evaluation of the student's ability to meet these goals and continue in the program.

Students will be admitted into the program based on a résumé, two letters of recommendation, completion of application form, and an interview.

In addition to University and theater core requirements, you are required to complete the following courses:

### Management: 66 credits

Two courses selected from:

THAR 230	Stagecraft: Scenery	6
or THAR 231	Stagecraft: Lighting	
or THAR 232	Stagecraft: Costume	
THAR 330	Elem of Technical Direction	4
THAR 402	Theater Management	4
	Practicum in Mgt.	4
	Practicum in Stage Mgt.	
THAR 409	Ind. Studies in Admin.	6
THAR 426	Stage Management I	3
THAR 440	Professional Theater Internship	12
THAR 428	Stage Management II	4
ACCT 101	Financial Accounting	4
ECON 103	Prin. of Microeconomics	4
MGT 202	Management	4
MGT 430	Mgt. Systems—Decision Making	4
MKT 202	Marketing Principles	4
PESS 227	First Aid	3

## Playwriting

Major code BF5165

(Interview, writing samples, and letter of recommendation from Fundamentals of Playwriting instructor required at the end of freshman year for admission.)

The B.F.A. in playwriting is designed as an intensive introduction to the art of dramatic writing for the stage. Study in this major focuses upon dramatic structure, its relationship to literature, and how the spoken word

functions on the stage and in performance. Students accepted into the B.F.A. playwriting program must complete a wide range of courses in addition to the core series of playwriting courses. The additional required courses include acting, theatrical design, literature, and courses in other disciplines, specifically English.

During the first two years, you should complete much of the theater core and general education requirements. In consultation with your advisor, you may also enroll in 200- and 300-level English courses that focus upon writers and literature related to your area of interest. At the end of your freshman year, you must interview, present writing samples and a letter of recommendation from the Fundamentals of Playwriting instructor for acceptance into the program. Your work will be reviewed at the end of your sophomore and junior years. Students must demonstrate significant progress in the development of dramatic writing skills for continued success in the program.

In addition to the University and theater core requirements, you are required to complete the following:

#### Playwriting: 59 credits

THAR 213	Acting Fundamentals I	4
THAR 250	Playwriting I	4
THAR 313	Acting Studies I	4
THAR 320	Directing II	4
THAR 350	Playwriting II	4
THAR 418	Senior Project	2
THAR 438A or THAR 438B	Historical Bases of Design I Historical Bases of Design II	4
THAR 450	Advanced Playwriting	4
THAR 451	Playwriting Workshop	3
THAR 459	Independent Studies in Playwriting	6
THAR 470 or THAR 471 or THAR 472 or THAR 473 or THAR 477	Tragedy Comedy Forms of Drama Seminar in Theater History and Drama: Selected Topics American Theater and Drama	4
	Two Eng. Electives* (200 level or above)	8
	Two Eng. Electives* (300 level or above)	8

\*Can be used to fulfill Tier II requirements.

## Production Design and Technology

### Major code BF5162

(Interview and portfolio review by the end of the freshman year required for admission).

The B.F.A. in production design and technology is available with an emphasis on the environmental aspects of performance. Design and technology in scenery, costumes, lighting, properties, sound, stage management, and makeup are taught in a series of courses and special projects throughout the four-year curriculum. Productions are prepared under the close personal advisement and participation of the production faculty and staff. Qualified students are challenged with major creative responsibilities.

During the first two years, you should complete much of the theater core and general education requirements. In consultation with your advisor, you may also enroll in selected production design technology courses at the 200 level and above. At the end of your freshman year, you interview and present your portfolio for provisional acceptance into the program. Portfolio examples of Design and Technical work from THAR 130, 131 and 135

classes should be presented in addition to other examples of art work or technical work at the Production Design and Technology audition interview. At the end of your sophomore year, you will again present your portfolio and interview for continuing status in this program. Continuing in the program is contingent upon successful annual portfolio reviews.

In addition to the University and theater core requirements, you are required to complete the following:

THAR 230	Stagecraft: Scenery	3
THAR 231	Stagecraft: Lighting	3
THAR 232	Stagecraft: Costume	3
THAR 233	Theatrical Design Skills	3
THAR 338 or THAR 438A or THAR 438B	History of Costume Hist. Bases of Design I Hist. Bases of Design II	4
THAR 431 or THAR 432 or THAR 434	Lighting Design II Costume Design II Scene Design II	4
At least two of the following three:		
THAR 331	Theory of Lighting	4
THAR 332	Costume Design I	4
THAR 334	Scene Design	4

A minimum additional 15 credits selected from production design and technology classes numbered 300 and above, or areas related to production design and technology approved by your advisor.

**Total: 43**

## Minor in Theater

### Minor code ORTHAR

The School of Theater offers a minor designed for those students who are majoring in other fields but who wish, in the course of their formal education, to experience work in the theater.

Students who wish to declare a minor in Theater must consult with their major advisor, in addition to the advisor for minors in the School of Theater to pursue the program. Any student declaring a minor in the School of Theater must maintain a 2.0 g.p.a. in the minor.

#### Required Core Courses: 13

THAR 110, 111 or THAR 113	Intro to Performance Acting Fundamentals	4
THAR 170 or THAR 172	The Theater Exper. Elem. of Performance	4 or 3
	Practicum (minimum of 3 experiences; at least 1 in PD&T or Mgt)	6

**At least one course (not less than 3 credits) in each of the following groups:**

**1** THAR 130, 131 (3)

**2** Playwriting, Directing, Acting (200 level or above) or THAR 218 A, B, C (Voice) (4)

**3** THAR 270, 271, 272; THAR 470 series (4)

Total required groups: 11

#### Electives: 6

Chosen from any available courses in the School of Theater

**Minimum credit hours required for minor: 30**

## Theater (Bachelor of Arts)

See "Theater" in the College of Arts and Sciences section for information regarding the Bachelor of Arts in Theater.

The B.F.A. degrees are issued by the College of Fine Arts.

The B.A. degree is issued by the College of Arts and Sciences.



# College of Health and Human Services

Grover Center

Gary S. Neiman  
Dean

Lee Cibrowski  
Associate Dean

Margaret Goodwin  
Assistant Dean for Student Services

Terrence Brown  
Assistant to the Dean for  
Recruitment and Retention

The College of Health and Human Services is made up of the School of Health Sciences, the School of Hearing, Speech and Language Sciences, the School of Human and Consumer Sciences, the School of Nursing, the School of Physical Therapy, and the School of Recreation and Sport Sciences. In order to provide students with a variety of local clinical education opportunities, the schools operate the Ohio University Therapy Associates Hearing, Speech, Language and Physical Therapy Clinics, Child Development Center, and Nutrition Treatment Program. The College has responsibility for campus recreation and administers the following facilities: Bird Arena, golf and tennis center, Aquatic Center, and the Ping Student Recreation Center. The University employee wellness program, WellWorks, is also administered by the College.

The College of Health and Human Services is committed to promoting professional and personal growth of students by providing interdisciplinary and multicultural academic, research, and service experiences in classrooms, laboratories, clinical, and community settings. The College integrates the participation and support of alumni in program development, implementation, and evaluation.

Through support of academic, scholarly, and service activities, the College promotes professional and personal growth of faculty and the expansion of knowledge in their respective disciplines. There is a commitment to provide a positive learning and work environment for students, faculty, and staff: an environment characterized by mutual respect and concern and one that is accessible to individuals with disabilities. The College actively seeks to develop cultural and ethnic diversity among students, faculty, and staff.

The College is dedicated to the development of the total student. Academic courses, recreational programs, and wellness activities are offered to the entire University community. The College further recognizes its responsibility to provide outreach programs that include continuing education for practicing professionals, as well as health and human services to the nearby community.

## Schools/Majors and Degrees

The College of Health and Human Services consists of six academic schools offering the following curricula:

### School of Health Sciences

Major awarding the Bachelor of Science in Environmental Health (B.S.E.H.)

Environmental Health Science

Majors awarding the Bachelor of Science in Health (B.S.H.)

Community Health Services

Health Services Administration

Long-Term Health Care Administration

Major awarding the Bachelor of Science in Industrial Hygiene (B.S.I.H.)

Industrial Hygiene

In addition, the School of Health Sciences offers the following minor:

Environmental Health Science

### School of Hearing, Speech and Language Sciences

Major awarding the Bachelor of Science in Hearing, Speech and Language Sciences (B.S.H.S.L.S.)

Hearing, Speech and Language Sciences

In addition, the School of Hearing, Speech and Language Sciences offers the following minor:

Hearing, Speech and Language Sciences

### School of Human and Consumer Sciences

Majors awarding the Bachelor of Science in Human and Consumer Sciences (B.S.H.C.S.)

Dietetics

Family and Consumer Sciences Education (teaching license)

Family Studies

Interior Architecture

Nutrition with Science

Restaurant, Hotel and Tourism

Retail Merchandising

Major awarding the Bachelor of Science in Education (B.S.Ed.) conferred jointly by the College of Education and College of Health and Human Services:

Early Childhood (teaching licensure)

In addition, the School of Human and Consumer Sciences offers the following minors:

Basic and Applied Nutrition

Retail Merchandising

In addition, the School of Human and Consumer Sciences offers the following Associate Degree (A.A.S.):

Child Development

### School of Nursing

Major awarding the Bachelor of Science in Nursing (B.S.N.) to registered nurses (RNs):

Baccalaureate Nursing

In addition, the School of Nursing offers the following teaching license for

registered nurses (RNs):

School Nurse

### School of Physical Therapy

The School of Physical Therapy does not award a bachelor's degree, but offers an entry-level doctoral physical therapy program, which leads to the Doctor of Physical Therapy (D.P.T.). Complete description of the program is available in the *Graduate Catalog*.

### School of Recreation and Sport Sciences

Major awarding the Bachelor of Science in Athletic Training (B.S.A.T.)

Athletic Training

Major awarding the Bachelor of Science in Physical Education (B.S.P.E.)

Physical Education (teaching license)

Majors awarding the Bachelor of Science in Recreation Studies (B.S.R.S.)

Adventure Recreation

Campus Recreation

Outdoor Education and Camping

Recreation Management

Therapeutic Recreation

Majors awarding the Bachelor of Science in Sport Sciences (B.S.Sp.S.)

Exercise Physiology

Sport Industry

In addition, the School of Recreation and Sport Sciences offers the following minor:

Recreation

In conjunction with the College of Arts and Sciences, the college offers a Gerontology Certificate.

An entry-level doctoral degree program is offered by the School of Physical Therapy. Master's and doctoral degree programs are offered by the School of Hearing, Speech and Language Sciences. Master's degree programs also are available in the Schools of Health Sciences, Human and Consumer Sciences, and Recreation and Sport Sciences. All programs are described in detail in the Ohio University *Graduate Catalog*.

### Admission Requirements

Freshmen admission to most of the majors offered by the college is open. The College does have several programs, athletic training education, physical education, and sport industry, for which students are admitted as pre-majors and then must meet certain criteria in order to be admitted into the major. At this time, athletic training education is the only program that has, in addition to the listed criteria, limited openings in the major. You must apply and be accepted into any of these majors. The baccalaureate nursing program and school nurse teaching license are available only to registered nurses (RNs). If you are interested in any of these programs, please read the more detailed description of the specific requirements and application process described later in this section of the catalog.

If you are already in an academic college at Ohio University and wish to transfer into any program within the College of Health and Human Services (except for athletic training, early childhood, nursing, physical education, or sport industry, which have selective admissions), you must have a minimum accumulative g.p.a. of 2.0.

### Scholarship Opportunities

Scholarships sponsored by the six schools and the College of Health and Human Services for qualified undergraduate students are available on an annual basis. Inquiries about the scholarship program should be directed to the scholarship chair of each school or the dean's office.

### Academic and Other Requirements

All majors within the School of Human and Consumer Sciences have requirements that you must meet in order to remain active or progress in the major. Further information about these specific requirements can be found under each program's description later in this section.

If you plan to pursue a teaching license, you must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section) even though you are a major within the College of Health and Human Services.

**The college's policy on internships, practica, field experiences, and student teaching requires that you be registered for the experience in the quarter that you are actually fulfilling the requirements for the course. The only exception to this requirement is an experience that takes place over winter break, in which case you may register for the course during either fall or winter quarter.**

### Advising

Upon entering the College of Health and Human Services you are assigned a major advisor who is a faculty member in the school in which your major program is contained. Faculty advisors assist you in the preparation of schedules and are available to discuss academic and career related topics. However, you are responsible for completing all University, college, and school requirements for the degree.

To assist you in keeping track of your progress in completing degree requirements, you will receive a DARS (Degree Audit Reporting System) report each quarter during preregistration. This report lists the requirements for your degree and your progress in completing them. If you are interested in determining your progress for other or additional majors, the Student Services Office within the dean's office can provide you with a "what if" DARS report.

### Graduation Requirements

To qualify for baccalaureate conferral, each graduation candidate in the College of Health and Human Services must earn at least 192

quarter hours of acceptable credit with a minimum accumulative g.p.a. of 2.0 and a minimum g.p.a. of 2.0 in the major; complete the major program requirements; and fulfill the University's General Education Requirements. If you are pursuing a teaching license, you must have a minimum accumulative grade point average of 2.75 and a g.p.a. of 2.75 in each teaching field you are pursuing.

### Professional Certification or Licensure

A number of the majors within the college will provide you with the opportunity to sit for either a certification or licensure exam. A teaching license will be awarded upon conferral of your degree if you successfully complete the major requirements, including those specified under the College of Education regarding admission to and progress in teacher education, early childhood, family and consumer sciences education, and physical education, plus pass the Praxis II exam. If you are majoring in hearing, speech and language sciences, you can begin to pursue a teaching license as an undergraduate, but the requirements for licensure are completed in the master's program.

You will be eligible to sit for the appropriate licensing or certification exam if you successfully complete any of the following majors: athletic training or long-term health care administration. If you complete your 12-week internship in therapeutic recreation under a NCTRC certified professional, and complete all requirements for the major, you are eligible to sit for the certification exam. Completing either the dietetics or nutrition with science options fulfills the academic component for becoming a registered dietitian, but not the internship component. The environmental health science major fulfills the educational requirements for registration as a sanitarian. Completing the community health services program enables you to sit for the Certified Health Education Specialist (CHES) exam. While Ohio University does not have a certified Child Life Specialist (C.L.S.) program, our Family Studies program is the recommended way to go if you are interested in pursuing this profession. These and other specific program requirements can be found in the description of each school on the following pages.

## Special Information for Students

The College of Health and Human Services provides opportunities for educational, leadership, and professional development through its honoraries and professional organizations.

Phi Upsilon Omicron, the national family and consumer sciences honorary, has an active chapter in the School of Human and Consumer Sciences. Nursing students can be elected to Sigma Theta Tau, the international nursing honorary. Eta Sigma Gamma, the national health science honorary, has an active chapter in the School of Health Sciences.

You are encouraged to participate in student professional organizations within your major or area of interest. Recognized professional organizations within the college include:

### School of Health Sciences

Future Health Care Administrators  
Industrial Hygiene Student Association  
Student Environmental Health Association  
Student Chapter American College of Healthcare Executives

### School of Hearing, Speech and Language Sciences

National Student Speech-Language and Hearing Association

### School of Human and Consumer Sciences

Fashion Associates  
OU Chapter of American Association of Family and Consumer Sciences  
OU Chapter of the American Society of Interior Designers  
OU Hospitality Association  
OU Student Dietetic and Nutrition Science Association  
Student Early Childhood Organization

### School of Physical Therapy

Pre-Physical Therapy Club

### School of Recreation and Sport Sciences

Exercise Physiology Club  
Physical Education Club  
Recreation Club  
Sports Marketing Club  
Sports Medicine Club  
Strength and Conditioning Club

## Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

## Global Learning Community

For information about the Global Learning Community, refer to "Global Learning Community Certificate Program" in the "University-Wide Academic Opportunities" section.

## Gerontology Certificate Program

The College of Health and Human Services and the College of Arts and Science jointly sponsor the undergraduate Gerontology Certificate Program for students in any major program who want to gain knowledge and skills for a career

that involves working with the elderly. Since the knowledge and research associated with aging span a variety of disciplines, course work in a number of established departments facilitate student learning opportunities. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population.

### Certificate Requirements

You must successfully complete at least 28 credit hours from the following list of courses including an approved practicum, field experience, or internship. The required gerontology-oriented practicum, field experience, or internship cannot contribute more than 5 credit hours to the total 28 hours required for the certificate.

HCCF 380	Death and Dying	4
HCCF 462F	Family Ties and Aging	4
HCFN 2608	Lifespan Nutrition: The Adult and Geriatric Years	1
HLTH 225	Long-Term Care Admin. I	4
HLTH 290	Health Aspects of Aging	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 406	Alternatives to Traditional Long-Term Care	4
HS 491	Special Topics in Gerontology	1-4
HSLS 300	Aging and Disorders of Communication	4
NRSE 491B	Gerontic Nursing	1-3
PESS 421	Principles of Aging and Physical Activity	4
PHIL 480	Thinking About Death	4
PSY 374	Psychology of Adulthood and Aging	4
SW 340	Mental Health and Social Work	4
SW 381	Counseling Older Adults	4
SW 486	Aging in American Society	4

Other courses may be substituted with prior approval of program coordinator

### Practicum/Field Experience Options

HCCF 499	Field Experience in Family Studies	12
HLTH 364	Community Health Field Experience	1-5
HLTH 464	Community Health Services Practicum	15
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

Social work majors must enroll in the following three social work (SW) courses:

SW 396	Social Work Practice I	4
SW 491A	Integrative Seminar	2
SW 492A	Field Practicum	4

Other courses may be substituted with prior approval of program coordinator

If you are interested in the certificate you can obtain an application form from your college's Student Service Office. After completing the application and obtaining the coordinator's signature, return the form to that office. Each quarter on your DARS (Degree Audit Reporting System) Report, you will be able to track your progress in the certificate program. The Gerontology Certificate will be awarded upon graduation if you have successfully completed the certificate requirements, and a notation of the certificate will be recorded on your permanent record (transcript). For more information on course offerings or other concerns, contact the coordinator of the Gerontology Certificate Program

## School of Health Sciences

### Matthew Adeyanju, Director

The School of Health Sciences is designed to serve students with diverse career interests: community health services, environmental and occupational health and safety, and health administration. Basic preparation for these careers is accomplished by completing the professional curricula that lead to a Bachelor of Science in Environmental Health, Bachelor of Science in Health, or Bachelor of Science in Industrial Hygiene.

The opportunities vary for professional preparation in the school. Community health services prepares students for entry-level staff and management positions in public-health and health-promotion agencies, social task force agencies, and other noninstitutional health agencies. Students are taught the skills needed for assessing and planning health programs according to the needs of the community being served.

Environmental and occupational health and safety students focus their studies on factors that may cause or contribute to impaired health of individuals in any environmental setting. The industrial hygiene option deals with industrial hazards and how they affect individuals in the workplace. The environmental health option prepares students for a career in one of the many fields of public health. It also qualifies students to sit for the examination to obtain professional registration as a sanitarian.

Health administration programs focus on preparing students for entry-level management positions in hospitals, long-term care facilities, and other health delivery systems. Blending business techniques and tools with health care applications and principles, students are taught to deal with complex organizational structures and associated business complexities. Students electing to specialize in long-term care administration receive an undergraduate Gerontology Certificate and are eligible, upon completion of the degree, to sit for the Ohio and National Nursing Home Administrator's licensure examination.

Most programs provide either practica or internships in order to provide students with practical experiences complementary to their academic coursework.

Note: Most courses offered through the School of Health Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

### Community Health Services

#### Major code BS8105

This program prepares health professionals for positions in community/public health. A community health educator may be employed at a health department, service organization, volunteer agency, state or federal health agency, or a work place. The goal is to improve the health of their clients/employees and lower health expenditures. The health educator is responsible for assessment, planning, and implementation and evaluation of programs. In addition

to these responsibilities, the health educator is expected to coordinate health programs as they communicate effectively and serve as a resource in the community. A Bachelor of Science in Health will be awarded to those students completing the prescribed course of study and officially applying for degree conferral.

#### Health Education Core

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 203	Foundations of Health	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
HLTH 210 or HLTH 212	Health of Women Controlling Stress and Tension	4
HLTH 215	Violence in America	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology	2
HLTH 270	Consumer and Family Health	4
HLTH 290 or HCCF 380	Health Aspects of Aging Death and Dying	4
HLTH 300	Worksite Health	2
HLTH 320	Strategies for Communicating Health Information	4
HLTH 345	School Health	4
HLTH 390	Community Health	4
HLTH 412	International Health Programming	4
HLTH 464	Community Health Services Practicum	15
HLTH 489	Program Planning	4

#### Health Science Core

BIOS 170, 171	Intro to Zoology	10
BIOS 225	Genetics in Human Society	3
BIOS 300	Anatomy and Histology	6
BIOS 345	Human Physiology	4
EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regs.	4
HLTH 330	Epidemiology	4
PSY 221	Statistics for the Behavioral Sciences	5
CS 120	Computer Literacy	4

#### Required Related Courses

ANTH 101 or INST 103 or INST 113 or INST 121	Intro to Cultural Anthro. Modern Asia Modern Africa Interdisciplinary Survey of Latin Am.	5 or 4
CHEM 101 or CHEM 121 or CHEM 151	Chemistry Applied to Today's World Principles of Chemistry I Fund. of Chemistry I	4 or 5
ENG 305J or HLTH 370J	Technical Writing Writing for the Health Sciences	4
HCFN 128	Intro to Nutrition	4
COMS 101	Fund. of Human Comm.	4
MATH 113 or MATH 163A or MATH 263A	Algebra Intro to Calculus Calculus	5 or 4
MGT 202	Management	4
BIOS 221	Basic Microbiology	4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	4

### Environmental and Occupational Health and Safety

Environmental and occupational health and safety professionals are trained to evaluate and control environmental factors that may cause or contribute to health problems. Two distinct majors are available.

The environmental health science option prepares you for a career in one of the many fields of public health. It also fulfills the educational requirements for registration as a sanitarian and for admission to a graduate school of public health. The Bachelor of Science in Environmental Health will be awarded upon completion of the prescribed course of study and official application for degree conferral.

The industrial hygiene option prepares you for a career as an industrial hygienist. An industrial hygienist is concerned with evaluating and controlling workplace environmental exposures that affect workers' and the public's health. Industrial hygiene is one of the leading environmental professions. After graduation you will be competitive in an expanding job market with major corporations, consulting firms, insurance agencies, and government agencies. In addition, the program will prepare you for admission to graduate school in industrial hygiene, environmental science, and public health. When you have completed the prescribed course of study and officially applied for degree conferral, you will be awarded the Bachelor of Science in Industrial Hygiene.

## Environmental Health Science

### Major code BS6260

#### Environmental Health Science

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regs.	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 425	Environmental Health and Safety Risk Communication	4
EH 440	Air Quality and Pollution Control	4
EH 464	Environ. Health Practicum	15
EH 491	EH/IH Professional Topics Seminar	1

#### Industrial Hygiene

IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4

#### Sciences

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 221, 222	Microbes and Humans Plus Lab	6
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

#### Required Related Courses

ECON 103	Prin. of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
PHIL 130	Intro to Ethics	4
PHYS 201	Intro to Physics	5
PHYS 202	Intro to Physics	5
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 5
SOC 101	Intro to Sociology	4

Even if your mathematics placement exam result is MATH 263 (which means that you have demonstrated quantitative skills sufficient to meet the Tier I requirement), you must complete one of the following

MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

### Required Elective Courses

EH/IH Electives (select a minimum of 7 courses)

EH 457	Occupational Safety and Health Adm.	4
EH 312	Solid and Hazardous Waste Mgt	4
EH 320	Shelter Environments	4
EH 330	Food Quality Control	4
EH 430	Vector Control and Pesticide Use	4
EH 450	Institutional Environ. Health Practice	4
EH 455	Recreational Environ. Health Practice	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	5
IH 420	Hazardous Material: Mgt and Control	4

General Science Electives (select a minimum of 3 courses. Prerequisite courses do not count toward the 3 course minimum. Courses with laboratories are considered as one elective only.)

BIOS 300	Anatomy and Histology	6
BIOS 301	Human Anatomy	6
BIOS 321	General Microbiology	5
BIOS 421A, 421B	Immunology and Lab	6
BIOS 422	Microbiological Techniques	5
BIOS 423A, 423B	Pathogenic Bacteriology and Lab	5
BIOS 424A, 424B	Animal Virology and Lab	5
BIOS 441A, 441B	Parasitology and Lab	5
GEOL 231	Water and Pollution	4
GEOL 268	Computer Applications in Geography	4
GEOL 370	Geographic Info. Systems Applications	4

## Industrial Hygiene

### Major Code BS3309

IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
IH 400	Ind'l Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 405	Ventilation for Contaminant Control	4
IH 410	Physical Hazards: Evaluation and Control	4
IH 415	Intro to Radiological Health	5
IH 420	Hazardous Material: Mgt and Control	4

#### Environmental Health Science

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 425	Environmental Health and Safety Risk Communication	4
EH 440	Air Quality and Pollution Control	4
EH 457	Occupational Safety and Health Adm.	4
EH 491	EH/IH Professional Topics Seminar	1

#### Sciences

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
BIOS 221, 222	Microbes and Humans Plus Lab	6
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 15
CHEM 301, 302	Organic Chemistry	6

#### Required Related Courses

ECON 103	Prin. of Microeconomics	4
ECON 104	Prin. of Macroeconomics	4
HLTH 330	Community Health Epidemiology	4
MATH 163A, 163B or MATH 263A, 263B	Intro to Calculus I and II Calculus I and II	8

MGT 202	Management	4
PHIL 130	Intro to Ethics	4
PHYS 201	Intro to Physics	5
PHYS 202	Intro to Physics	5
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
or PSY 221	Statistics for Beh. Sciences	5
SOC 101	Intro to Sociology	4

**Required Elective Courses***EH/HLTH Electives (select a minimum of 3 courses)*

EH 312	Solid and Hazardous Waste Mgt	4
EH 320	Shelter Environments	4
EH 330	Food Quality Sanitation	4
EH 430	Vector Control	4
EH 450	Institutional Environ. Health Practice	4
HLTH 230	Medical Terminology	2

*Other Electives (select a minimum of 3 courses. Prerequisite courses do not count toward the 3 course minimum. Courses with laboratories are considered as one elective only.)**Science Electives*

BIOS 300	Anatomy and Histology	6
BIOS 301	Human Anatomy	6
BIOS 352 or PE55 302	Biomechanics Biomechanics	4
BIOS 342, 354	Principles of Physiology I and Lab	5
BIOS 343, 355	Principles of Physiology II and Lab	5
BIOS 421A, 421B	Immunology and Lab	6
BIOS 422	Microbiological Techniques	5
BIOS 423A, 423B	Pathogenic Bacteriology and Lab	5
BIOS 441A, 441B	Parasitology and Lab	5
GEOL 268	Computer Applications in Geography	4
GEOL 370	Geographic Info. Systems Applications	4
PHIL 335	Environmental Ethics	4

*Engineering Elective*

CH E 448	Chemical Process Safety	3
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*Business Elective*

BMT 285	Government and Business	4
BMT 288	Computer Applications for Mgt	4
FIN 331	Risk and Insurance	4
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
MGT 340	Organization Behavior	4

**Professional Courses (select minimum of 8 hours)**

EH 310	Water Supply and Wastewater Environ. Health Practice	4
EH 312	Solid and Hazardous Waste Mgt	4
EH 330	Food Quality Control	4
EH 430	Vector Control and Pesticide Use	4
EH 440	Air Quality and Pollution Control	4
EH 450	Institutional Environ. Health Practice	4
EH 457	Occupational Safety and Health Adm.	4
IH 400	Industrial Hygiene Sampling and Analysis	5
IH 401	Toxicological Effects of Hazardous Materials	4
IH 415	Intro to Radiological Health	5
IH 420	Hazardous Material: Mgt. and Control	4

**Health Administration**

Health administration offers two options: health services administration and long-term health care administration. The health services administration option prepares you for entry-level management and staff positions in all sectors of the health care industry. You are prepared for positions in acute, subacute, and ambulatory care facilities such as hospitals, clinics, home health agencies, managed care organizations, and other emerging health delivery systems.

The long-term health care administration option prepares you for a career in the management of nursing and other long-term care facilities. It qualifies you to take the licensure examination of the Ohio Department of Health Board of Examiners for Nursing Home Administration, as well as the National Licensure Examination.

Note: If you pursue a dual major in health services administration and long-term health care administration, you will be required to register for and complete a separate internship (HLTH 481) for each major.

At the completion of either course of study and after official application for degree conferral, you will be awarded a Bachelor of Science in Health. Upon completion of the long-term health care administration option, you will also qualify for an Ohio University undergraduate Gerontology Certificate (see "Gerontology" at the beginning of the College of Health and Human Services section).

**Minor in Environmental Health Sciences****Minor Code OR6260**

The environmental health sciences minor is particularly appropriate to science majors, such as biological sciences and chemistry, however, industrial hygiene majors are not eligible. Because of the diverse subject matter, the minor can be structured so that students of all other disciplines can benefit. The overall purpose of the minor is to offer you the opportunity to enhance the practical application of your degree. You are required to complete 16 hours of required courses and 8 hours of professional courses.

**Required Courses**

EH 260	Intro to Environ. Health and Safety	4
EH 275	Env. and Occup. Health and Safety Regulations	4
IH 200	Intro to Ind. Hygiene, Occup. Safety, and Health	4
HLTH 330	Community Health Epidemiology	4

**Health Services Administration****Major code BS8119****Health Administration Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
CS 120	Computer Science Survey	4
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Orgs.	4
HLTH 230	Medical Terminology	2
HLTH 316	Human Resource Mgt. and Trng. in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Admin. of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

**Required Professional Courses**

ACCT 101	Financial Accounting	4
ECON 103	Prin. of Microeconomics	4
HLTH 330	Community Health Epidemiology	4
HLTH 335	Admin. of Acute Care Facilities	4
COMS 103	Public Speaking	4
MGT 202	Management	4

Plus 20 hrs from ACCT 102 or courses at the 200 level or above in ACCT, BUSL, EH, FIN, HRM, HLTH, IH, COMS, MGT, MKT.

**Long-Term Health Care Administration****Major code BS6836****Health Administration Core**

BIOS 103 or BIOS 170	Human Biology Intro to Zoology	5
CS 120	Computer Science Survey	4
EH 260	Intro to Environ. Health and Safety	4
HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 217	Intro to Health Care Organizations	4
HLTH 230	Medical Terminology	2
HLTH 316	Human Resource Mgt. and Training in Health Care	4
HLTH 340	Contemporary Problems in Health Care Org.	4
HLTH 421	Financial Administration of Health Facilities	4
HLTH 422	Reimbursement Payment Systems in Health Care	4
HLTH 480	Practicum in Health Admin.	10
HLTH 481	Internship in Health Admin.	15

**Required Professional Courses**

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4
EDCE 410	Human Relations	3
HCCF 380	Death and Dying	4
HCFN 128	Intro to Nutrition	4
HLTH 225	Long-Term Care Admin. I	4
HLTH 290	Health Aspects of Aging	4
HLTH 325	Long-Term Care Admin. II	4
HLTH 330	Community Health Epidemiology	4
HLTH 405	Long-Term Care Admin. III	4
HLTH 406	Alternatives to Traditional Long-Term Care	4
MGT 202	Management	4
PSY 101	General Psychology	5
PSY 374	Psychology of Adulthood and Aging	4
SW 101	Intro to Social Welfare and Social Work	3

**Select one of the following four:**

COMS 301	Empirical Research Applications	5
PSY 120	Elem. Statistical Reasoning	4
PSY 221	Statistics for Beh. Sciences	5
SQC 351	Elementary Research Techniques	4

**Select one of the following four:**

SW 381	Counseling Older Adults	4
SW 486	Aging in American Society	4
HSLS 390	Aging and Disorders of Communication	4
PESS 421	Principles of Aging and Physical Activity	4

Plus 4 hours from HCCF, PSY, SOC, or SW at the 300 level or above

## School of Hearing, Speech and Language Sciences

**M. Brooke Hallowell, Director**

The school grants a B.S. in Hearing, Speech and Language Sciences, a M.A. in speech-language pathology, a clinical doctorate in audiology (Au.D.), and Ph.D. degrees in audiology and speech-language pathology. The M.A. in speech-language pathology and the Au.D. degree programs are accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association.

Our nationally recognized undergraduate pre-professional program seeks to ensure a well-rounded education, which develops both the scientific and humanistic aspects of an Ohio University graduate who will function in a global marketplace in the 21st century. The curriculum integrates a sequence of arts and sciences coursework with courses designed to provide a sound understanding of normal human communication processes and an introduction to speech-language pathology and audiology. Certificate programs in gerontology and teaching English as a second language, and minors in psychology, linguistics, interpersonal communication, business, social sciences, physics, biological sciences, and Spanish are options available that broaden perspectives and support diverse career choices.

Students are provided the fundamentals necessary for graduate study. Graduate study is required for certification and employment as an audiologist or speech-language pathologist. A high percentage of undergraduate students complete the program in four years and many enter a graduate professional degree program in speech-language pathology or audiology. A variety of career options is available and there is high demand that will continue well into the future for these services.

A unique feature of our undergraduate program is a sequence of practicum courses designed to give each student a sound understanding and orientation to the discipline. Here, undergraduate students gain observation experience in the new on-campus state-of-the-art Ohio University Hearing, Speech and Language and Physical Therapy Clinics, as well as other sites. They function as assistants to graduate students and may also be given direct responsibilities serving our clients in the on-campus clinic or in off-campus clinical or educational facilities under faculty supervision.

The School of Hearing, Speech and Language Sciences offers the resources of a major university—including diversity of faculty and coursework—yet provides individual attention to students when they are in need of help with assignments or professional guidance. The program encourages students to think clearly, and objectively, preparing them to solve problems as professionals through effective interpersonal and literacy skills. The coordinator of undergraduate education and school advisors are school faculty who guide students regularly in curriculum planning and career counseling. An honor's tutorial program in hearing, speech and language sciences is also available and allows exceptionally qualified students to interact with faculty in more depth through tutorials and learning experiences that are individually designed. For more information about this program, visit the following Web site: <http://www.ouhsc.org/>

Any undergraduate student desiring to declare a major in Hearing, Speech and Language Sciences should visit the College's Student Services Office (GROV W370). You are expected to seek advising during each pre-registration period.

**Note:** Most undergraduate courses offered through the School of Hearing, Speech and Language Sciences can be retaken one time (i.e., one initial registration and one retake). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade and credit hours no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree.

## Hearing, Speech and Language Sciences

### Major code B55305

#### Major Requirements

##### Pre-Professional Foundation

HSLS 108	Intro to Communication Disorders	5
HSLS 240	Professional Orientation	3
HSLS 341	Pre-Professional Service I	2
HSLS 380	Basic Audiology	5
HSLS 442	Pre-Professional Service II	3

##### Basic Human Communication Sciences

HSLS 208	Phonetics	5
HSLS 252	Speech Science	4
HSLS 253	Hearing Science	4
HSLS 310	Language Development	4
HSLS 313	Anatomy & Neurology of Speech	4
HSLS 390	Intro to Research in HSLS	4
HSLS 410	Language Science	4

##### Required Related Courses

COMS 101	Fund. of Human Communication	4
COMS 103	Fund. of Public Speaking	4
PSY 101	General Psychology	5
PSY 221	Statistics for Behav. Sci.	5
PHIL 101 or PHIL 120 or PHIL 130	Fund. of Philosophy Principles of Reasoning Intro to Ethics	4
PESS 227 or PESS 228	First Aid: Work Place Training CPR	3 or 1
PSY 275	Educational Psychology	4

##### Biological and Physical Science

BIOL 101 or BIOS 103 or BIOS 170	Principles of Biology Human Biology Intro to Zoology	5
PHYS 201 or PSC 101L or PSC 105L	Intro to Physics Physical World Color, Light, and Sound	5

##### Computer Literacy

CS 120	Computer Literacy	4
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##### Cultural Diversity

HSLS 420	Multicultural Aspects in Comm. Sciences	4
ANTH 101 or COMS 410 or LING 275	Intro to Cultural Anthro. Cross-Cultural Commun. Intro to Lang. and Culture	5 or 4

##### Foreign Language

HSLS 379 or HSLS 385A	Basic Manual Communication Sign Language I	4 4
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Two quarters of a spoken non-English language.

### Life Span

HCCF 160 or PSY 273	Intro to Child Development Child and Adolescent Psychology	4
HSLS 300 or PSY 374 or SW 381	Aging and Disorders of Comm. Psychology of Adulthood and Aging Counseling Older Adults	4

### Linguistics

LING 351	Fund. of Gen. Linguistics	5
LING 280 or PSY 307 or any LING course above 351	Language in America Psycholinguistics	4

### Special Needs

EDSP 271 or PSY 332 or PSY 376	Intro to Educ. of Exceptional Children and Youth Abnormal Psychology Psych. Disorders of Childhood	4
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### Additional Requirement for Teacher Licensure

EDSP 374	Nature and Needs of Learners/ Mild-Moderate Educational Needs	5
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## Minor in Hearing, Speech and Language Sciences

### Minor code OR5305

The minor in Hearing, Speech and Language Sciences (HSLS) fosters learning-related communication science and the normal processes of human communication and will provide an introduction to the field of communication disorders. The field of HSLS is inherently interdisciplinary. Few academic or clinical realms are unrelated to hearing, speech and language sciences. Study in this area is relevant to students with almost any major.

Students wishing to pursue graduate studies in any clinical field may develop a good foundation through this minor. Even those without professional interests related to communication disorders per se may benefit from an improved appreciation of issues related to a host of vital human communication issues that affect their everyday lives.

To earn a minor in HSLS, a minimum of 28 hours of HSLS coursework must be completed. Students considering pursuit of graduate study in the HSLS master's programs (speech-language pathology or audiology) at Ohio University are encouraged to take those courses required for graduate study, marked with asterisks below.

#### Required Course

HSLS 108	Intro to Comm. Disorders.	5
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#### Elective Courses

HSLS 208*	Phonetics	5
HSLS 252*	Speech Science	4
HSLS 253*	Hearing Science	4
HSLS 300	Aging and Disorders of Communication	4
HSLS 310*	Language Development	4
HSLS 313*	Anatomy and Neurology	4
HSLS 380*	Basic Audiology	5
HSLS 385 or HSLS 378	Sign Language I Sign Language	4
HSLS 390	Intro to Research in HSLS	4
HSLS 410	Language Sciences	4
HSLS 499	Independent Reading in Speech Pathology, Audiology, and Speech Sciences	3-5

\*Required for admission into professional graduate programs in the areas of hearing, speech, and language sciences.



# School of Human and Consumer Sciences

## V. Ann Paulins, *Director*

The School of Human and Consumer Sciences, accredited by the American Association of Family and Consumer Sciences, offers programs in child and family studies; food, nutrition and hospitality; interior architecture; and retail merchandising. There are nine professional curricula leading to the Bachelor of Science in Human and Consumer Sciences. In addition, the school offers a two-year curriculum in child development leading to the A.A.S. degree. Graduate work leading to the M.S. degree also is offered (see the *Graduate Catalog*).

The mission of the School of Human and Consumer Sciences is to promote the quest for the improvement of quality of life and the human condition through the integration of theory, research, and practice. The school endeavors to emphasize the relationships of the needs of individuals and families across life's span to the society and environment. The school is committed to seeking innovative solutions to contemporary challenges and assumes responsibility for the dissemination of knowledge to the public to improve the quality of choice and consumption of goods and services.

The school provides a variety of activities and experiences, including a departmental honors program, the Child Development Center, the Atrium Cafe, and the Nutrition Treatment Program.

### Honors Program

The School of Human and Consumer Sciences' Honors Program offers academically qualified students a more advanced and challenging educational experience related to the study of human and consumer sciences. The program provides opportunities for involvement in scholarly independent work, one-on-one interaction with faculty, and an in-depth study of one area of human and consumer sciences.

Throughout the Honors Program, students work under the guidance of a faculty honors advisor and the Honors Program coordinator to plan and complete scholarly projects. Students complete a thesis course sequence HCGE 495H, 497H, 498H, and 499H during which a project is designed, executed, reported in writing, and presented to the students' honors advisory committee and others. Projects may be research, development of educational materials, in-depth senior term papers, or original designs. Those students who successfully complete their honors project receive special designation on their diplomas. For more information, refer to <http://www.ohiou.edu/humanandconsumer/honors.htm>

### The Atrium Cafe

The primary purpose of the Atrium Cafe is to serve as a quantity food preparation laboratory for students in the food, nutrition and hospitality programs in the School of Human and Consumer Sciences. It is a commercial establishment housed in Grover Center—open to the public for breakfast and lunch weekdays during the academic quarter.

In addition to quantity food preparation, students use the site as a management education facility, a laboratory to learn purchasing and inventory management, and as a

site to practice organizational strategy. Students in other areas of Ohio University use the Atrium Cafe to experience marketing strategy, promotional techniques, customer service, and event planning.

The mission of the Atrium Cafe in Grover Center is to provide a best-practices laboratory site for food, nutrition and hospitality students in the School of Human and Consumer Sciences, Ohio University. The operation of the Atrium Cafe will strive to achieve

- good management practices
- high quality food
- a clean and pleasant environment
- structured opportunities for student learning at introductory, intermediate, and advanced levels
- collaborative relationships with programs in the School, the College of Health and Human Services, Ohio University, and the Athens community.

### Child Development Center

The Ohio University Child Development Center provides clinical opportunities for Ohio University students from the Schools of Human and Consumer Sciences, Hearing, Speech and Language Sciences, and Recreation and Sport Sciences, as well as the Department of Psychology, the College of Education, and other related departments throughout the University.

The philosophy of the Child Development Center is based on the belief that children best acquire knowledge when they are in an enriched environment that is challenging, stimulating, and nurturing. The primary commitment of the Child Development Center is to help children realize their full potential in emotional, social, cognitive, and physical development.

A second responsibility of the Child Development Center is to prepare early childhood educators. The center is also committed to research that furthers knowledge of the growth and development of children, family relations, and educational curricula.

Finally, the center acts to support families in the Athens community, offering both developmental child care and professional knowledge of children's growth, development, and learning.

### Nutrition Treatment Program

This program has four main objectives: (1) to provide learning opportunities for senior dietetic and master's-level nutrition majors; (2) to offer a health care service to community residents; (3) to provide outreach educational efforts to improve the nutrition awareness of the community; and (4) to foster research designed to promote client understanding and compliance and to maximize students' decision-making and problem-solving skills.

The Commission on Accreditation for Dietetics Education—approved program in didactic dietetic education is charged with providing students with learning based on practical experience. Through working with clients, students gain experience in nutrition assessment, developing a plan of care to meet client needs, implementing and evaluating that plan, and documenting progress in the medical record. Nutrition counseling allows dietetic majors to synthesize and apply previously acquired knowledge in a practical ambulatory care setting under the guidance of a registered and licensed dietitian.

The Nutrition Treatment Program provides a service to area residents who show some degree of cardiovascular or other disease risk. The goal is to help at-risk individuals prevent or attenuate disease through adoption of eating behaviors appropriate to their individual health needs and lifestyle.

The Nutrition Treatment Program provides the community with educational programming on issues of current nutritional concern through newsletters, oral presentations to campus and community groups, panel discussions, and radio and television features. The goal is to increase public awareness, knowledge, and adoption of recommended nutritional practices.

The Nutrition Treatment Program fosters research designed to serve clients and encourages research that helps future dietetic professionals develop conceptual and decision-making skills.

## Degree Requirements for All Majors

Candidates for the Bachelor of Science in Human and Consumer Sciences and Associate in Applied Science degrees must fulfill the University General Education Requirements and complete a minimum of 192 hours for B.S. and 96 hours for A.A. (see "General Education Requirements" in the Graduation Requirements—University Wide section). A g.p.a. of 2.0 (C) is required in all hours attempted (both overall and in your major) but includes only final hours and grade points on retaken courses. Some programs have additional criteria that must be met. In addition, you may be required to have a g.p.a. higher than 2.0 (C) to obtain certain field experiences or internships, to be admitted to teacher education, or to be admitted to graduate school or student teaching.

**Note:** most undergraduate courses offered through the School of Human and Consumer Sciences can be retaken up to two times (i.e., one initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation), but can be repeated for credit to count toward your degree.

## Early Childhood

### Major code B56355

The early childhood major, jointly offered by the College of Education and College of Health and Human Services, prepares you to teach children three years old through third grade. In addition to being qualified to teach in primary grades, you can also teach in preprimary programs such as public school preschools, nursery schools, child-care centers and Head Start programs.

You must meet the criteria for selective admission to and retention in teacher education as established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 gpa in your major, in required professional education courses, and overall. Enrollment in the program is limited to promote quality instruction, appropriate field placement and effective advising. Contact your Office of Student Services or your academic advisor for details on the Early Childhood restrictive admission criteria and process.

If you are enrolled in a different major or college at Ohio University and wish to transfer into this program, you must

possess at least a 2.75 accumulative gpa.

Graduates of the program will be awarded the Bachelor of Science in Education (BSEd) degree. Upon conferral of the degree and after passing the Praxis II exam, you are eligible for an Ohio two-year provisional teaching license in Early Childhood Education.

### Required General Education

Ohio requirements for teacher licensure state that you must complete a general studies program that include the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

#### Specific Tier I quantitative course requirements that you must fulfill are:

MATH 120*, 121, 122	Elementary Topics in Math	10
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\*NOTE: These math courses are recommended; however, any math courses number 120 or above (except MATH 151) and totaling 10 hours will be acceptable.

#### Specific Tier II course requirements that you must fulfill are:

##### Social Sciences Requirement

PSY 101	General Psychology	5
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Select one course from the following American History or Political Science courses:

HIST 200	U.S. History 1600-1865	4
HIST 201	U.S. History Since 1865	4
POLS 101	American National Government	4
POLS 102	Issues in American Politics	4
POLS 103	The United States in World Affairs	4

##### Biological Science Requirement

BIOL 101 or BIOS 170 or PBIO 100L or PBIO 110	Principles of Biology Intro to Zoology The World of Plants w/Lab Intro to Plant Biology	5 or 6
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##### Earth Science Requirement

GEOG 101 or GEOL 101	Physical Geography Introduction to Geology	5
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##### Physical Science Requirement

PSC 100, PSC 140 or PSC 100D, PSC 140	Survey of Astronomy, Observ. Astr. Lab Moons and Planets: The Solar System and Observ. Astr. Lab	5
or PSC 101L or PSC 105L or PHYS 201	Physical World Color, Light, and Sound Intro to Physics	

In addition, you must complete COMS 103, Fundamentals of Public Speaking, before you can apply for admission into Professional Education in the College of Education.

### Professional Early Childhood Requirements

You must earn at least a C (2.0) or better grade in all of the following courses, except HCCF 462A, HCCF 462B, HCCF 462C, or HCCF 462E:

HCCF 160	Intro to Child Development	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Education	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Ed.	1
HCCF 361	Guidance and Classroom Mgt. in Early Childhood	3
HCCF 361L	Clinical: Guidance and Classroom Mgt in Early Childhood	1
HCCF 363	Creative Experiences in Early Childhood	4
HCCF 363L	Clinical: Creative Exp. in Early Childhood	1

HCCF 371	Family and Life Span Development	3
HCCF 455	Curriculum and Teaching Strategies in Early Childhood	4
HCCF 455L	Clinical: Curriculum and Teaching Strategies in Early Childhood	2
HCCF 463	Administration in Early Childhood	3
HCCF 465	Parent Education	3
HCCF 467	Philosophy and Theories of Child Development	3

Select one of the following courses:

HCCF 462A	Diversity in Families	4
HCCF 462B	Parenthood	4
HCCF 462C	Middle Childhood	4
HCCF 462E	Youth Identity Crisis	4

#### Related Requirements

HCFN 128	Intro to Nutrition	4
NRSE 303	Health and Safety in Early Childhood	3
PESS 270	Teaching of Physical Education	3

#### Professional Education Requirements

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0):

EDCT 203	Technological Applications in Education	4
EDCI 220	Phonics and the Structure of Language	5
EDCI 371C	Instructional Adaptations for Learners with Exceptionalities and Diverse Needs in Early Childhood	4
EDEC 206	The Integrated Curriculum for Early Childhood	4
EDEC 225	Emergent Reading/Literature	3
EDEC 319	Reading and Literature in the Early Childhood Classroom	5
EDEC 330	Teaching Young Children Mathematics	3
EDEC 330L	Teaching Young Children Mathematics—Field/Clinical	1
EDEC 340	Teaching Science for Young Children	4
EDEC 340L	Teaching Science for Young Children—Lab	1
EDEC 350	Teaching of Social Studies in Early Childhood	3
EDEC 350L	Teaching of Social Studies in Early Childhood—Field Experience	1
EDEC 421	Observing Young Children Reading Strategies and Skills	for 2
EDEC 421L	Observing Young Children for Reading Strategies and Skills—Lab	2
EDSP 271	Intro to the Education of Exceptional Children and Youth	4

#### Student Teaching Experiences

EDPL 458, 459	Student Teaching in Early Childhood (K-3)	13
EDPL 465	Student Teaching Seminar	3
HCCF 474	Student Teaching in Early Childhood (Preschool)	6
HCCF 400	Senior Seminar	3

## Child Development (A.A.S.)

### Major code AA1106

The School of Human and Consumer Sciences offers an Associate in Applied Science in child development on the Athens, Lancaster, and Southern campuses. The program meets the requirements for prekindergarten associate teacher licensure in Ohio. To be eligible for licensure you must have a g.p.a. of 2.5 or higher. If you plan to pursue licensure in Early Childhood Education, you must maintain a 2.75 g.p.a. Consult with the director of human and consumer

sciences in Athens, or the director of child development at either the Lancaster or Southern campus for additional information, including employment opportunities and continuation into the baccalaureate degree program.

Note: the HCCF 366, Practicum in Early Childhood Education, experience is not equivalent to the HCCF 474, Student Teaching in Early Childhood, and HCCF 400, Senior Seminar, teaching experience. Therefore, HCCF 366 will not be substituted for these classes. If you plan on continuing with the bachelor's degree program, consult with your advisor.

#### Core Requirements: 63 hours

HCCF 160	Intro to Child Dev.	4
HCCF 160A	Observing and Recording Children's Behavior	3
HCCF 170	Intro to Early Childhood Education	3
HCCF 260	Diversity in Early Childhood Education	3
HCCF 260L	Clinical: Diversity in Early Childhood Education	1
HCCF 361	Guid. and Classroom Mgt. in Early Childhood	3
HCCF 361L	Clinical: Guid. and Classroom Mgt. in Early Childhood	1
HCCF 363	Creative Exper. in Early Childhood	4
HCCF 363L	Clinical: Creative Exper. in Early Childhood	1
HCCF 364	Premath and Science with Young Children	4
HCCF 365	Infant and Toddler Education	3
HCCF 365L	Infant and Toddler Lab	3
HCCF 366	Practicum in Early Childhood Education*	6
HCCF 371	Family and Life Span Development	3
HCFN 128	Intro to Nutrition	4
EDEC 206	Intro to Integrated Curriculum	3
EDEC 225	Emergent Reading/Literature	3
EDCT 203 or CS 120	Technological Appl. in Educ. Computer Literacy	4
EDSP 271	Intro to Educ. of Exceptional Children and Youth	3
PESS 228	CPR	1
NRSE 303	Health and Safety in Early Childhood	3

\*HCCF 366 is a half-day student teaching experience. You must sign up one year in advance.

#### General Education Requirements: 39–40 hours

Tier I	Freshman Composition	5
Tier I	Quantitative Skills (MATH 120 recomm.)	4–5
Tier II	Breadth of Knowledge	30

Note: HCCF 160 and HCFN 128 count toward the 30 hours for Tier II.

#### Minimum required for graduation: 96

## Family and Consumer Sciences Education

### Major code BS6370

This program prepares you for teaching family and consumer sciences in grades four and beyond (middle school through high school/adult). You must meet the criteria for selective admission to and retention in teacher education established by the College of Education (see "Admission to Professional Education" in the College of Education section), including a 2.75 g.p.a. in your major, in required professional education courses, and overall. Upon completion of this program and after passing the Praxis II exam, you are eligible for the provisional Ohio vocational family and consumer sciences teaching license.

**Required General Education**

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, science, and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that will fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II course requirements that you must fulfill are:

CHEM 121	Prin. of Chemistry	4
or CHEM 151	Fund. of Chemistry	or 5
PSY 101	General Psychology	5

In addition, you must complete COMS 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

**Major Requirements**

HCGE 110	Educ. in Family and Consumer Sciences	2
HCCF 160*	Intro. to Child Devel.	4
HCCF 270*	Family Living	3
HCCF 299*	Intro to Human Services—Prof. Assessment	3
HCCF 360	Human Sexualities	4
HCCF 361	Early Childhood Guidance and Mgmt	3
HCCF 361L	Clinical/Early Childhood Guidance and Management	1
HCCF 371*	Family and Life Span Development	3
HCCF 399*	Junior Practicum—Prof. Development	5
HCCF 452	Mgt for the Disabled Homemaker	4
HCCF 462A	Diversity in Families	4
HCCF 462B	Parenthood	4
HCCF 462C	Middle Childhood	4
HCCF 462E	Youth Identity Crisis	4
HCCF 462F	Family Ties and Aging	4
HCCF 471*	Family Life Education	4
HCFN 120*	Meal Management	3
HCFN 128*	Intro. to Nutrition	4
HCFN 222*	Food Science Principles	4
HCGE 340*	Teaching of Family and Consumer Sciences Ed	4
HCIA 180*	Intro to Residential Design and Architecture	3
HCRM 250*	The Consumer in Am. Soc.	4
HCRM 283*	The Apparel Process	4
HCRM 315	Elementary Textiles	4
HLTH 202*	Intro to Health and Lifestyle Choices	4
COMS 205	Group Discussion	4
or EDCE 410	Human Relations	or 3

**\*C (2.0) or better required****Required Professional Education Courses**

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0).

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Development	6
EDCI 201	Characteristics of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Development	2
EDCT 203	Technological Applications in Education	4
EDCS 301	Educ. and Cultural Diversity	3
EDCI 371B	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Prof. Educator	4

EDPL 463, 464	Student Teaching	13
EDPL 465	Stu. Teaching Seminar	3
EDSE 350	Secondary School Planning and Instruct.	4
EDSE 351	Instructional Process and Curriculum	5

**Family Studies****Major code B56351**

The program prepares you to work with clients at various developmental stages—children, adolescents, adults, or seniors. It includes family and child development classes in the School of Human and Consumer Sciences, as well as courses relating to such issues as single parenthood, child guidance, and aging. Required related courses from other departments include psychology, sociology, and social work. A required junior practicum and quarter of full-time field experience in human services provide practical experience and the opportunity to take theory into practice.

If you choose to add the optional undergraduate Gerontology Certificate to your degree, you'll also gain in-depth knowledge and skills for careers that involve working with older adults.

Ohio University does not have a certified Child Life Specialist (CLS) program. However, our Family Studies program is the recommended way to go if you are interested in pursuing this profession. Please be aware this is an extremely competitive field, and you need to be willing to take some extra steps in order to be competitive for an internship. This includes maintaining a high GPA. In addition to the courses listed below, and some specific experiences you should have in your field experiences and internship, it is highly recommended that you take the following two classes: HLTH 230, Medical Terminology and HSLS 378, Sign Language. For more information about the Child Life Specialist field, contact Dr. Jenny Chabot, School of Human and Consumer Sciences or check the school's Web site (<http://www.ohio.edu/humanandconsumer/>) for further information.

Family studies graduates find employment in family services, children's services, adolescent group homes, rehabilitation centers, community programs for the developmental disabled, senior citizen centers, family planning centers, mental health agencies, and probation services.

**Major Requirements**

HCCF 160* or PSY 273*	Intro to Child Dev. Child and Adolescent Psych.	4
HCCF 270	Family Living	3
HCCF 299*	Intro to Human Services—Prof. Assessment	3
HCCF 360	Human Sexualities	4
HCCF 361	Guidance and Classroom Management in Early Childhood	3
HCCF 361L	Clinical: Guidance and Class room Management in Early Childhood	1
HCCF 371*	Family and Life Span Development	3
HCCF 380	Death and Dying	4
HCCF 399*	Junior Practicum—Prof. Development	5
HCCF 400	Senior Seminar	3
HCCF 444 or HCCF 471	Adult Education Family Life Education	4
HCCF 462A	Diversity in Families	4
HCCF 462B	Parenthood	4
HCCF 462C	Middle Childhood	4
HCCF 462E	Youth Identity Crisis	4

HCCF 462F	Family Ties and Aging	4
HCCF 499*	Field Experience—Family Studies	12

**Required Related Courses**

EDCE 410	Human Relations	3
HCFN 128	Intro to Nutrition	4
HClA 180	Intro to Residential Design and Arch.	3
HCRM 250	Consumer in Amer. Society	4
CS 120	Computer Science Survey	4
MGT 202	Management	4
PESS 227	First Aid: Work Place Training	3
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
PSY 332 or PSY 376	Abnormal Psychology Psychological Disorders of Childhood	4
PSY 233	Psychology of Personality	4
SOC 101	Intro to Sociology	4
SOC	Any 200-level	4
SOC 261	Deviant Behavior	4
SW 101	Intro to Social Welfare and Social Work	3
SW 290	Social Welfare as an institution	4

Select one of the following SOC courses:

SOC 315	Individual in Mass Society	4
SOC 334	Sociology of Aging	4
SOC 363	Juvenile Delinquency	4
SOC 365	Sociology of Mental Illness	4
SOC 414	Contemporary Social Movements	4
SOC 416	Society and the Individual	4
SOC 467	Violence Against Women	4

Select two of the following SW courses:

SW 382	Understanding Alcohol Problems and Alcoholism	4
SW 383	Intro to Social Work Practice Methods	4
SW 384	Social Work Law	4
SW 390	Social Policy	4
SW 480	Child Abuse and Neglect	4

\* C (2.0) or better required

**Food, Nutrition and Hospitality****Program Standards**

To remain active in any program option listed as Food and Nutrition, you must meet the following criteria:

- 1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Earn at least a C (2.0) or better in each course listed under Major Requirements and Related Requirements (both dietetics and nutrition with science majors).

or

Earn at least a 2.0 (C) in each course listed under Major Requirements (Restaurant, Hotel and Tourism major).

You must successfully earn a C (2.0) in all required HCFN courses by the end of the third enrollment in each course. Other schools and departments may also limit the number of times you may retake a course. If, after your second enrollment in a HCFN course, you have not earned a C (2.0) or better, you will receive a letter from the food, hospitality, and nutrition coordinator informing you that you must obtain a satisfactory grade at the end of the next enrollment in that course or you will be dropped from the major.

Note: To become a registered dietitian, you must first complete a minimum of a bachelor's degree and course work approved by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, followed by a CADE-accredited or approved, supervised practice program, which typically lasts 6-12 months, at a health-care facility, community agency or a foodservice corporation (may be combined with undergraduate or graduate studies). Finally, you must pass a national examination administered by the Commission on Dietetic Registration.

Two majors at Ohio University meet the first step of this process, Dietetics and Nutrition with Science. The program is currently granted approval by the Commission on Accreditation for Dietetics Education (CADE) of the American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, 312.899.5400. CADE has established a process for making complaints against dietetic education programs. Please refer to <http://www.eatright.org/Public.7782.cfm> for the procedure or for more information about CADE.

Note: If you are applying for a post-graduation internship or graduate program, you should be aware that they generally require a minimum accumulative g.p.a. of 3.0 (B) or higher. Completing the graduation requirements of Ohio University and meeting requirements of the Dietetics or Nutrition with Science major does not guarantee that you will be accepted into post-baccalaureate programs for professional experience or graduate study. You must apply to and be granted acceptance into such programs.

**Dietetics****Major code BS6360**

This program qualifies you to apply for a dietetic internship (supervised practice) to become a registered dietitian.

**Major Requirements**

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 260A	Lifespan Nutrition: Maternal to Adolescence	2
HCFN 260B	Lifespan Nutrition: The Adult and Geriatric Years	1
HCFN 299	Sophomore Practicum— Professional Awareness	1
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334A	Intro to Food Production: Dietetics	2
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Nutrition Treatment in Outpatient Care	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4
HCFN 432	Research Design and Methods in Nutrit	3
HCFN 437	Food Service Systems I	5
HCFN 499A	Nutrition Counseling	2
HCFN 499C	Nutrition Counseling Practicum	1

\*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

**Required Related Courses**

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171	Intro to Zoology	10
BIOS 221, 222 or BIOS 321	Microbes and Humans Plus Lab General Microbiology	6 or 5
BIOS 300 or BIOS 301	Anatomy and Histology Human Anatomy for Nonmajors	6 6
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
BIOS 445 or PESS 414	Physiology of Exercise Physiology of Exercise	4 4
BIOS 463 or CHEM 489	Cell Chemistry Basic Biochemistry	4 4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 or 15
CHEM 301, 302	Organic Chemistry	6
CS 120	Computer Science Survey	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family and Life Span Development	3
HCRM 250 or HCIA 180	Consumer in Amer. Society Intro to Residential Design and Arch.	4 3
HRM 320	Human Resource Management	4
COMS 101 or COMS 103	Fund. of Human Communication Fund. of Public Speaking	4 4
JOUR 250	Advertising Principles	4
MGT 202	Management	4
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4
PSY 275	Educational Psychology	4
If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:		
MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4

**Restaurant, Hotel and Tourism****Major code BS6361**

This program, which has a built-in business minor, prepares you for a career in management and supervision in hotels, motels, restaurants, public schools, residence halls, and industry. It is strongly recommended that you have a part-time job in a hospitality establishment to be more marketable upon graduation.

**Major Requirements**

HCFN 110	Intro to Hospitality	4
HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 299B	Soph. Practicum: Intro to Food Serv.	4
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334B	Intro to Food Production: Food Service	3
HCFN 335	Food Service Purchasing	4
HCFN 360	Catering Practicum	1-3
HCFN 399B†	Field Experience	5
HCFN 400B	Senior Seminar	1
HCFN 437	Food Service Systems I	5
HCFN 438	Food Service Systems II	4
HCFN 439	International Cuisine	4
HCFN 440	Beverage Management	4

HCFN 498B	Food Service Professional Development	2
HCFN 499B	Food Service Practicum	3
*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)		
†Must secure liability insurance (approx. \$38)		

**Required Related Courses**

ACCT 101	Financial Accounting	4
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
CHEM 121	Principles of Chemistry	4
CS 120	Computer Science Survey	4
ECON 103	Prin. Microeconomics	4
ECON 104	Prin. Macroeconomics	4
ECON 381 or PSY 221	Intro to Economic Statistics Statistics for Beh. Sciences	4 4
FIN 325	Managerial Finance	4
HCCF 371	Family and Life Span Development	3
HCRM 250 or HCIA 180	Consumer in Amer. Society Intro to Residential Design and Arch.	4 or 3
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
COMS 101 or COMS 103	Fund. of Human Communication Fund. of Public Speaking	4 4
JOUR 250	Advertising Principles	4
MATH 113 or MATH 163A	Algebra Intro to Calculus	5 or 4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 310	Principles of Operations	4
PSY 101	General Psychology	5
PSY 275	Educational Psychology	4
SOC 101	Intro to Sociology	5

**Nutrition with Science****Major code BS6363**

This program qualifies you to apply for a dietetic internship (supervised practice) to become a registered dietitian and also provides a basis for graduate study and research in nutrition and/or biological sciences. Undergraduates with a strong interest in nutrition, such as those in premedicine, will find the program will satisfy requirements for admission to professional schools.

**Major Requirements**

HCFN 120*	Meal Management	3
HCFN 128	Intro to Nutrition	4
HCFN 222	Food Science and Prin.	4
HCFN 260A	Lifespan Nutrition: Maternal to Adol.	2
HCFN 260B	Lifespan Nutrition: The Adult and Geriatric Years	1
HCFN 299	Sophomore Practicum—Prof. Awareness	1
HCFN 330	Food Sanitation and Safety	2
HCFN 333	Principles of Quantity Food Production	2
HCFN 334A	Introduction to Food Prod.: Dietetics	2
HCFN 335	Food Service Purchasing	4
HCFN 382	Intermediate Nutrition	4
HCFN 399A†	Field Experience	5
HCFN 400A	Senior Seminar	1
HCFN 422	Experimental Foods	4
HCFN 424	Nutrition Treatment in Outpatient Care	4
HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4

HCFN 432	Research Design and Methods in Nutrition	3
HCFN 437	Food Service Systems I	5
HCFN 499A	Nutrition Counseling	2
HCFN 499C	Nutrition Counseling Practicum	1

\*Must obtain a laboratory coat to be worn in foods labs (approx. \$30)

†Must secure liability insurance (approx. \$38)

#### Required Related Courses

ACCT 101	Financial Accounting	4
ANTH 101	Intro to Cultural Anthropology	5
BIOS 170, 171, 172, 173	Intro to Zoology	14
BIOS 221, 222 or BIOS 321	Microbes and Humans Plus Lab General Microbiology	6 or 5
BIOS 300 or BIOS 301 or BIOS 303	Anatomy and Histology Human Anatomy Comparative Vertebrate Anatomy	6 or 6 or 6
BIOS 325	General Genetics	5
BIOS 342, 343 or BIOS 345, 346	Principles of Physiology Human Phys. and Lab	6 or 7
BIOS 445 or PE55 414	Physiology of Exercise Physiology of Exercise	4
BIOS 446 or PE55 415	Physiology of Exercise Lab Physiology of Exercise Lab	3
BIOS 463 or CHEM 489	Cell Chemistry Basic Biochemistry	4
CHEM 151, 152, 153	Fund. of Chemistry	15
CHEM 301, 302	Organic Chemistry	6
CS 120	Computer Science Survey	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
HCCF 371	Family and Life Span Development	3
HCM 250 or HCIA 180	Consumer in Amer. Society Intro to Residential Design and Arch.	4 or 3
HRM 320	Human Resource Management	4
COMS 101 or COMS 103	Fund. of Human Comm. Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
MATH 163A&B or MATH 263A&B	Intro to Calculus Calculus	7 or 8
MGT 202	Management	4
PHYS 201, 202	Intro to Physics	10
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	4
PSY 275	Educational Psychology	4

HCFN 428	Advanced Nutrition	4
HCFN 429	Community Nutrition	3
HCFN 430	Therapeutic Nutrition	4

## Interior Architecture

### Major code BS6383

The interior architecture program is accredited by the Foundation for Interior Design Education and Research (FIDER). The program prepares you for a career in design practice in residential and non-residential design, as well as related areas such as lighting, visual display, sales, and professional showroom management.

### Program Standards

To remain active as an interior architecture major, you must meet the following criteria:

- 1 Submit and pass a portfolio review that includes all work from ART 110, 113, 116; HCIA 180, 181, 299; IT 104; CS 120 and P SC 105L. Portfolio reviews take place once each academic year, currently at the end of fall quarter.
- 2 Earn at least a C (2.0) in each studio course marked with an asterisk (\*). Students who receive a grade lower than C (2.0) in these courses will be required to re-take the course.
- 3 Enroll in an advanced studio course during senior year.

During your senior year you will be required to complete a portfolio of your work.

### Transfer and Regional Students

Students who wish to transfer into the interior architecture major from another institution or regional campus students who are re-locating to the Athens campus must submit a portfolio of work for review by the faculty. Students with design work determined by the faculty to be equivalent to that of some or all of the portfolio review required coursework (as listed above) will be reviewed, for the purpose of determining admission to Phase II of the major, at the same time as all other portfolio review submissions, currently taking place at the end of the fall quarter. Transfer students admitted into the major must complete all major requirements determined to be missing from the student's academic design experience.

Note: Students admitted to Phase II of the major through the portfolio review are required to provide and maintain a personal computer in the design studio for the use in all studio courses. The minimum requirements for the computer will be outlined by the faculty at the time of the portfolio review each year.

### Major Requirements

HCIA 180	Intro to Residential Design and Arch.	3
HCIA 181	Color Theory	4
HCIA 201*	Environmental Design Studio I	4
HCIA 201A	Environmental Design Seminar I	2
HCIA 202*	Environmental Design Studio II	4
HCIA 202A	Environmental Design Seminar II	2
HCIA 279	Rendering and Presentation Tech.	4
HCIA 288	Lighting Fundamentals	3
HCIA 299	Professional Practices	2
HCIA 300	CAD Professional Application	3
HCIA 301*	Interior Architecture Studio I	4
HCIA 301A	Interior Architecture Seminar I	2
HCIA 302*	Interior Architecture Studio II	4

## Minor in Basic and Applied Nutrition

### Minor code OR6360

This minor gives you the opportunity to strengthen your knowledge of nutrition principles and applications. After completing this minor, you possess basic information concerning nutrition and diet to help others identify reliable nutrition resources in the community. A minimum of 29 to 31 hours plus any necessary prerequisites are required.

### Supporting Sciences

(These courses are prerequisites to upper-level HCFN courses. Twelve hours can be applied to the minor.)

BIOS 345	Human Physiology	4
BIOS 463	Cell Chemistry	4
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 or 15
CHEM 301, 302	Organic Chemistry	6

### Nutrition Courses

HCFN 128	Intro to Nutrition	4
HCFN 382	Intermediate Nutrition	4

HCIA 302A	Interior Architecture Seminar II	2
HCIA 350	Materials and Construction I	3
HCIA 351	Materials and Construction II	3
HCIA 352	Business Proced. & Contact Documents	3
HCIA 361*	Professional Design and Develop. & Construction Drawing Studio	4
HCIA 361A	Professional Design and Develop. & Construction Drawing Seminar	2
HCIA 400	Senior Seminar—Professional Eval.	1
HCIA 401*	Interior Architecture Studio III	4
HCIA 401A	Interior Architecture Seminar III	2
HCIA 402*	Interior Architecture Studio IV	4
HCIA 402A	Interior Architecture Seminar IV	2
HCIA 470	Research & Program. for Interior Arch.	3
HCIA 480	History of Furniture and Int. Design I	3
HCIA 481	History of Furniture and Int. Design II	3
HCIA 482	History of Furniture and Int. Design III	3
HCIA 495*	Thesis Interior Architecture Studio	5
HCID 499	Field Work—Interior Architecture	5–12

**Required Related Courses**

ART 110 or IART 117	Seeing and Knowing Visual Arts Intro to Fine Arts	4
ART 113	Three-Dimensional Design	4
ART 116	Descriptive Drawing	4
CS 120	Computer Science Survey	4
HCCF 371	Family and Life Span Development	3
HCFN 128	Intro to Nutrition	4
HCRM 250	Consumer in Amer. Society	4
HCRM 315	Elementary Textiles	4
COMS 103	Fund. of Public Speaking	4
IT 104	Architectural Drawing I	5
JOUR 250	Advertising Principles	4
P SC 105L	Color, Light, and Sound	5
Art History (select a minimum of 12 hours)		
AH 211	History of Art	4
AH 212	History of Art	4
AH 213	History of Art	4
AH 214	History of Art	4
Business (select a minimum of 12 hours)		
ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
HCRM 201	Intro to Retailing	4
HCRM 417	Retail Merchandising—Management	4
HCRM 437	Strategic Merchandise Planning	4
MGT 202	Management	4
REAL 101	Real Estate Principles & Practices	4
REAL 103	Real Estate Law	4
REAL 201	Real Estate Appraising I	4
REAL 204	Real Estate Finance	4

**Retail Merchandising****Major code BS6380****Program Standards**

To remain active in retail merchandising, you must meet the following criteria:

- 1 Maintain overall g.p.a. of 2.0 (C) or better in all hours attempted at Ohio University.
- 2 Maintain a g.p.a. of 2.0 (C) or better in all courses listed under Major Requirements.

3 Complete any courses identified by an asterisk (\*) in the option listing for your program with a grade of C or better.

You must succeed in a required program course by the third time you enroll in the course. If you do not meet this requirement, you will be dropped from the program. Success is a passing grade, or a grade of C in those courses where a minimum grade of C is required.

This program prepares you for retail management, marketing, distribution, and product development positions such as buyer, store or corporate manager, visual merchandiser, manufacturer's sales representative, and fashion coordinator.

**Major Requirements**

HCRM 201	Intro to Retailing	4
HCRM 250	Consumer in Am. Society	4
HCRM 299*	Prof. Development	4
HCRM 315*	Elementary Textiles	4
HCRM 383	Product Development, Eval., and Distr.	4
HCRM 399*	Career Search Strategies	3
HCRM 399A*	Retail Merchandising Field Work Exp.	2
HCRM 399B*	Retail Sales Internship	4
HCRM 400	Internship Preparation	1
HCRM 405A	History of Costume	4
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417*	Retail Merchandising—Management	4
HCRM 423	Retail Merchandising—Prom. Strategy	4
HCRM 437	Strategic Merchandise Planning	4
HCRM 480*	Strategic Retail Policy	4
HCRM 499*	Internship: Retail Merch.	16

**Required Related Courses**

ACCT 101	Financial Accounting	4
IART 117	Intro to Fine Arts	4
CS 120	Computer Science Survey	4
ECON 103	Principles of Microeconomics	4
ECON 104	Principles of Macroeconomics	4
ENG 305J or ENG 308J or PRCM 325J	Technical Writing Advanced Composition Business Communication	4
HCCF 371	Family and Life Span Development	3
COMS 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
PSY 101	General Psychology	5
PSY 221	Statistics for Beh. Sciences	5
SOC 101	Intro to Sociology	4

Select two of the following:

HCCF 160	Intro to Child Development	4
HCFN 128	Intro to Nutrition	4
HCIA 180	Intro to Residential Design and Arch.	3

Select two of the following:

ART 113	Three-Dimensional Studies	4
ART 116	Descriptive Drawing	4
HCIA 181	Color Theory	4
HCRM 150	Design and Illustration Techniques	4

If your mathematics placement exam result is lower than MATH 263, you must complete one of the following:

MATH 113	Algebra	5
MATH 163A	Intro to Calculus	4
MATH 263A	Calculus	4



**Approved business electives**

Select 12 hours at the 300 or 400 level in ACCT, BA, BUSL, ECON, FIN, HRM, MGT, MKT, MIS, OPN, or QBA.

**Minor in Retail Merchandising****Minor code OR6380**

CS 120	Computer Science Survey	4
HCRM 201	Intro to Retailing	4
HCRM 407	Global Issues in Textiles, Apparel, and Retail Ind.	4
HCRM 417	Retail Merchandising— Management	4
HCRM 423	Retail Merchandising— Prom. Strategy	4
HCRM 437	Strategic Merchandise Planning	4
JOUR 250	Advertising Principles	4

## School of Nursing

**Esperanza Joyce, Director**

**Baccalaureate Nursing Program****Major code BS1203**

The School of Nursing offers a RN-to-B.S.N. program designed for licensed RNs who are graduates of state-approved associate's degree or diploma schools of nursing. The purpose is to prepare generalists for the professional practice of nursing and to provide a foundation for graduate study. The program is accredited by the National League for Nursing Accrediting Commission and the Commission on Collegiate Nursing Education.

The major in nursing includes upper-division coursework in nursing, university General Education Requirements, and upper-division courses outside of nursing. It is possible to complete a minor in another discipline while completing the major in nursing. The School of Nursing offers interactive online (web-based) learning courses with residencies, increasing availability for professional development and career mobility for registered nurses.

Admission to and progression through the program include the following steps: (1) you are admitted to Ohio University; (2) after a review of your records of previous coursework, you are informed of the program prerequisites you must meet and are oriented to the expectations and structure of the program; (3) you are admitted to the nursing major and, if needed, you enroll in courses to complete prerequisites; (4) complete NRSE 295 before NRSE 300; and (5) complete the required nursing courses in sequence as well as other required courses for the degree.

Many nursing courses have a clinical component. Clinical experiences occur in a broad range of traditional and nontraditional health care and health maintenance settings. The communities surrounding the classroom locations are used whenever possible. These clinical experiences have been carefully selected to optimize learning. You are responsible for transportation to the clinical experiences.

You must earn a grade of 2.0 (C) or better in each course offered by the School of Nursing (NRSE series). If you do not earn a grade of C, you must retake the course before progressing to the next course in the sequence.

**Note:** most undergraduate courses offered through the School of Nursing can be retaken up to two times (i.e., initial registration and two retakes). Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative

grade point calculation) but can be repeated for credit to count toward your degree.

Upon completing the program prerequisites (90 quarter hours consisting of lower-division nursing and general education courses) and 102 quarter hours of upper-division nursing, general education, and support courses, and an official application for degree conferral, you will receive the Bachelor of Science in Nursing degree.

**Program Requirements**

- 1 Graduate of state-approved associate's degree or diploma program in nursing.
- 2 Admission to Ohio University.
- 3 Evaluation of official transcripts from lower-division nursing program and all other post-secondary education. The evaluation must be completed by the University and the School of Nursing.
- 4 Completion of program prerequisites, including attendance at the orientation course, NRSE 295, before beginning the nursing major sequence of courses.
- 5 Prior to enrolling in clinical NRSE courses, documentation of:
  - a current license to practice as a registered nurse (RN) in Ohio.
  - b individual malpractice insurance.
  - c current immunizations (and/or waiver of the same) including hepatitis B.
  - d results of TB skin test completed within the past year.
  - e current CPR certification.

**Program Prerequisites (90 hrs)**

- I** Lower-division Nursing (minimum of 36 qtr hrs)\*

**A** Transfer credit (36–45 qtr hrs) is awarded to applicants with an associate's degree in nursing from a regionally accredited college or university.

or

- B** Credit (36–45 qtr hrs) is awarded to applicants with a diploma in nursing upon completion of specified ACT Proficiency Examinations or other evaluative mechanisms.

**II Content Prerequisites\*\***

Freshman English composition (ENG 151, 152, or 153)†

Computer Literacy (CS 120)†

Quantitative skills (PSY 120)†

Nutrition (HCFN 128)†

Microbiology (BIOS 201 or 221)†

Anatomy and Physiology (BIOS 130 and 131)†

Chemistry (CHEM 121 or 151)†

Human Growth and Development (HCCF 160 or PSY 273)†

Sociology (SOC 101)†

Psychology (PSY 101)†

NRSE 295 Intro to Baccalaureate Nursing Education\*

**III Electives (credit hours will vary depending upon credit weight of prerequisites)**

\*Must be completed prior to enrollment in NRSE 300

\*\*Some courses listed may fulfill University General Education Requirements.

†All but three must be completed prior to enrollment in NRSE 300.

**Required Nursing Courses**

NRSE 300	Transitions in Nursing	5
NRSE 310	Health Appraisal	4
NRSE 325	Health Intervention in Nursing	5
NRSE 330	Family Nursing	4
NRSE 335	Ethical and Legal Issues in Nursing	4
NRSE 340	Community Health Nursing	4
NRSE 405	Research: Critique and Methodology	4
NRSE 415	Restorative Nursing	4
NRSE 416	Mgt. Issues in Nursing	4
NRSE 425	Clinical Applications in Nursing	4
NRSE 445	Strategic Planning in Nursing Care	4
NRSE 455	Excellence in Nursing	4

**General Education/Support**

You must complete Ohio University General Education Requirements:

Tier II—a minimum of 30 hours with at least 4 hours in 4 of 5 categories (some content prerequisites and/or electives you have taken may apply to this requirement)

Junior-level advanced composition (select one course with “J” designation)

Tier III synthesis course (select one course with “T3” designation)

You may select either Option A or Option B to meet the upper-division course requirements. With either plan, consultation with your major advisor is necessary.

**Option A**

Select 36–56 quarter hours of coursework as indicated in the following areas (300–400 level):

Junior level composition and Tier III as specified above (8 hours)

Behavioral Sciences

Psychology (select one)

Human Relations (select one)

Biological Sciences (select one)

Humanities (select one)

Electives (12–32 quarter hours)

At least 12 of these elective hours must be selected from 300 and 400 level courses with 1–5 credit hours of Ohio University workshop courses allowed. Other electives are to be chosen in consultation with advisor.

**Option B**

You must file a Category IV Declaration form with the School of Nursing when choosing Option B.

Select 36–56 quarter hours of coursework as indicated in the following areas:

Junior-level composition and Tier III as specified above (8 hours)

Complete a minor course of study, a second major, or one of the available licensure or certificate programs, e.g., School Nurse or Gerontology (min. of 28 hours)

Elective courses should be at the 300 or 400 level but needed prerequisites or required courses for your minor, second major, license or certificate at the 100 or 200 level can be used. Electives are to be chosen in consultation with advisor.

**School Nurse License**

If you are licensed as an RN in Ohio, you are eligible to apply for admission to the School Nurse License Program. You can complete the program under one of three plans:

- 1 If you are an RN with a B.S.N. degree, take only the additional courses required to meet the Ohio Department of Education's licensure requirements.
- 2 If you are an RN who wishes to complete the B.S.N. and the School Nurse License simultaneously, follow the B.S.N. program of study and use the required School Nurse License courses as part of that degree.
- 3 If you are an RN who seeks to complete a B.S. degree not in nursing, consult with both your major advisor and the School Nurse License advisor to develop a program.

If you do not have a B.S. degree in some area, you will have to earn one. This involves meeting University General Education Requirements and graduation requirements in addition to the major requirements and School Nurse Licensure requirements. Your file will be reviewed, and credit transferred from other accredited institutions will be used to meet requirements wherever possible. Graduates of diploma programs in nursing may earn 36 quarter hours of credit for lower-division nursing upon completion of specified ACT-PEP exams.

If you hold a B.S.N., you will likely have met the nursing course requirements (NRSE) listed below. If you earned your B.S.N. at another university, course descriptions from

previous schools may be required to determine equivalent coursework.

**Required Courses**

EDCS 400	School, Society, and the Prof. Educator	4
HCCF 360	Human Sexualities	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 320	Strategies for Communicating Health Information	4
HLTH 345	School Health	4
NRSE 300	Transitions in Nursing	5
NRSE 305	Intro to School Nursing	4
NRSE 310	Health Appraisal	4
NRSE 325	Health Intervention in Nursing	5
NRSE 330	Family Nursing	4
NRSE 340	Community Health Nursing	4
NRSE 461A	School Nurse Seminar: Early Childhood	1
NRSE 461C	School Nurse Practice: Early Childhood	4
NRSE 462A	School Nurse Seminar: Middle Childhood	1
NRSE 462C	School Nurse Practice: Middle Childhood	4
NRSE 463A	School Nurse Seminar: Late Childhood	1
NRSE 463C	School Nurse Practice: Late Childhood	4
PSY 233 or PSY 332	Psychology of Personality Abnormal Psychology	4
PSY 273	Child and Adolescent Psychology	4
PSY 275	Educational Psychology	4

**School of Physical Therapy****Averell Overby, Director**

The School of Physical Therapy offers an entry-level doctoral program in physical therapy leading to a Doctor of Physical Therapy (D.P.T.) degree. The program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE). The professional program begins in June and extends over a three-calendar-year period. A baccalaureate degree and completion of prerequisites are required for admission to the program.

The problem-solving curriculum is designed to prepare competent health care professionals who will be able to employ critical decision-making skills for optimal patient care. Evidence-based practice is stressed throughout the curriculum as students critically analyze current literature related to physical therapy. Clinical experience is integrated with the didactic and laboratory components throughout the program of study.

**Eligibility to Apply**

Students should consult the Web page (<http://www.ohio.edu/phystherapy/>) for the most up-to-date information.

You must meet the following requirements to be eligible to apply for June admission to the School of Physical Therapy's graduate program:

- 1 earned a minimum overall grade-point average (g.p.a.) of 3.0 on a 4.0 scale.
- 2 completed at least 8 of the 12 Life and Physical Sciences prerequisite courses by the end of the fall quarter in which you apply. You must complete the remainder of the math, behavioral, and life/physical science prerequisites before beginning study in the program.
- 3 earned bachelor's degree from an accredited college or university.

**Minimum Prerequisite Course Requirements\*****General**

PSY 221	Statistics for Beh. Sciences	5
PSY 273	Child and Adolescent Psy.	4

**Math**

MATH 163A	Calculus	4
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**Life and Physical Sciences\*\***

BIOS 170	Intro. to Zoology	5
BIOS 171	Intro. to Zoology	5
BIOS 301 or BIOS 303	Human Anatomy Comp. Vertebrate Anatomy	6
BIOS 345, 346	Human Physiology	7
BIOS 445, 446 or PESS 414, 415	Exercise Physiology Exercise Physiology	7
CHEM 121, 122, 123 or CHEM 151, 152, 153	Prin. of Chemistry Fund. of Chemistry	12 or 15
PHYS 201, 202, 203	Physics	15

<b>TOTAL</b>	<b>70-73 quarter hours</b>
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\*All prerequisite courses must be passed with a grade of C or better.

\*\*All life and physical science courses must include a laboratory component. You must have a total of 20 quarter hours (14 semester hours) at or above the junior (300) level in the anatomy, physiology, and exercise physiology lecture and lab courses.

**Program of Study**

The Physical Therapy program is at the graduate level and is described in the Ohio University *Graduate Catalog*.

## School of Recreation and Sport Sciences

**Ming Li, Director**

The School of Recreation and Sport Sciences offers diverse academic programs in athletic training education, exercise physiology, physical education, recreation studies, and sport industry. In addition to these majors, a minor in recreation is also available. Committed to excellence in undergraduate education, most programs in the school have been accredited or approved by national accrediting agencies or organizations, such as National Council for Accreditation of Teacher Education (NCATE), Commission on Accreditation of Allied Health Education Programs (CAAHEP), National Recreation and Parks Association (NRPA), and Sport Management Program Review Council (SMPRC). The school faculty are committed to promoting the pursuit of an active and healthy lifestyle.

For information about the programs, go to our Web site at <http://www.ohio.edu/rsp/index.htm>.

**Note:** Courses offered through the School of Recreation and Sport Sciences vary in the number of times they can be retaken (i.e., initial registration plus retake). If you need to know the limit for a course, contact the college's Student Services office. Variable credit courses usually cannot be retaken (i.e., with the possibility of the initial grade no longer being figured in the accumulative grade point calculation) but can be repeated for credit to count toward your degree. While no limit has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of such hours that can count toward graduation.

**Athletic Training Education**

All students interested in Athletic Training Education (ATE) must be admitted into Ohio University with a designated major code of ND8142 (Pre-Athletic Training). In order to continue in ATE beyond the first year, you must apply to and be accepted into the program. Applications are due on or before May 1st. Decisions for acceptance will be finalized on or before July 1st.

Admission and criteria processes are:

1. Successfully complete RSAT 140, 145, and 150 with at least a B (3.0) in each course. (Students would apply while enrolled in RSAT 150).
2. Have earned at least a 2.0 accumulative g.p.a.
3. Earned 45 hours by the end of spring quarter of application year.
4. Be eligible to take BIOS 301 by the first quarter of the sophomore year.
5. Provide documentation of 60 hours of athletic training observation.
6. Provide documentation of hepatitis B and TB vaccinations.
7. Return the athletic training application to the Undergraduate Athletic Training Education Program Director, Ohio University, Grover Center E18B, Athens OH 45701, on or before May 1st. (The application may be found on the athletic training Web site at <http://www.ohio.edu/rsp/ugrad/ugat.htm> or from the undergraduate athletic training education director at the above address.)
8. Successfully complete an on-campus interview with the Athletic Training Education Selection Committee. Interviews are conducted after May 1st. Students are invited to interview for ATE who will meet selection criteria.

Once admitted into Athletic Training Education, students must complete the technical standards for the Ohio University Undergraduate Athletic Training Education Program. These standards are found in the Athletic Training Education Policies and Procedure Manual distributed to all prospective students. They are also located on the athletic training education Web site. The Athletic Training Education Selection Committee will choose a select group of approximately 20 students. Students not admitted must request a change of major.

If you are selected for the program, you are required to complete a minimum of 800 hours of clinical experience between your sophomore and senior years. Successful completion of the CAAHEP-accredited program qualifies you to take the National Athletic Trainers' Association Board of Certification Examination and the State of Ohio Board of Athletic Trainer Licensure Examination. You are awarded the Bachelor of Science in Athletic Training upon completion of the program and after official application for degree conferral.

## Athletic Training

### Major code BS8117

#### Athletic Training Core Courses

BIOS 301	Human Anatomy	6
HCFN 128	Intro to Nutrition	4
HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 230	Medical Terminology	2
PESS 203	Intro to Exercise Physiology	3
PESS 227	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 302 or BIOS 352	Biomechanics Biomechanics	4
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 348	Exercise Testing and Prescription	
PESS 414, 415 or BIOS 445, 446	Physiology of Exercise and Lab Physiology of Exercise and Lab	7
PESS 416	Resistance Training	4
PESS 447	Exercise Prescription II	4
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elem. Statistical Reasoning Statistics for Beh. Sciences	4 or 5
RSAT 140	Principles of Athletic Training	3
RSAT 145	Practical Aspects of Athletic Training	2
RSAT 150	Prevention/Mgt of Athletic Injuries	3
RSAT 180A	Practical Apps in Athletic Training I	1
RSAT 180B	Practical Apps in Athletic Training II	1
RSAT 180C	Practical Apps in Athletic Training III	1
RSAT 240	Recognition and Eval. of Athletic Injuries	3
RSAT 245	Emergency Care of Athletic Injuries	3
RSAT 280A	Clinical Apps in Athletic Training I	1
RSAT 280B	Clinical Applications in Athletic Training II	1
RSAT 280C	Clinical Apps in Athletic Training III	1
RSAT 300	Recognition and Evaluation of Athletic Injuries II	4
RSAT*	Interdisciplinary Aspects of Sports Med.	
RSAT 310	Therapeutic Exercise	5
RSAT 315	Therapeutic Modalities	5
RSAT 380A	Clinical Apps of Athletic Training IV	1
RSAT 380B	Clinical Apps in Athletic Training V	1
RSAT 380C	Clinical Apps in Athletic Training VI	1
RSAT 420	Administration of Athletic Training	3
RSAT 480A	Clinical Apps in Athletic Training VII	1
RSAT 480B	Clinical Apps in Athletic Training VIII	1
RSAT 480C	Clinical Apps in Athletic Training IX	1

#### Required Related Courses

BIOS 170, 171	Intro to Zoology	10
CHEM 121, 122, 123 or CHEM 151, 152, 153	Principles of Chemistry Fund. of Chemistry	12 or 15
PESS 125	Human Movement and Fitness Perspectives	4

Even if your mathematics placement exam result is MATH 263 (which means that you demonstrated quantitative skills sufficient to meet the Tier I requirement), you must complete one of the following:

MATH 113	Algebra	5
MATH 115	Precalculus	5
MATH 163A	Intro to Calculus	4
MATH 263A	Analytic Geometry and Calculus	4

\*The above listed course with no number is in the process of being approved. Check with your advisor for final course number, title, and credit hours.

## Physical Education and Sport Sciences

Physical Education and Sport Sciences includes three major areas of specialization: physical education with an emphasis on teaching PreK-Grade 12, exercise physiology, and sport industry.

In order to be granted a degree in either physical education or sport sciences, you must be a declared major for at least one academic year (three quarters) immediately before graduation. No more than three quarter hours of credit in each of the following courses will count toward the 192 hours needed for graduation:

BIOS 392 and/or BIOS 492	Topics in Zoology
MUS 251A	Marching Band
PED 123	Conditioning and Weight Training
PESS 418A	Instructional Experience

## Physical Education

### Major code BS8106

A major in physical education prepares you to teach physical education from prekindergarten through grade twelve (PreK-12 teaching license). All students interested in physical education will enter Ohio University into a pre-major code of ND8106 (Pre-Physical Education). To be admitted into the major, you must apply to and be accepted after successful completion of nine courses, passing a skill/fitness assessment and maintaining an accumulative g.p.a. of 2.75 or higher.

#### Pre-Physical Education Requirements

1. Complete the following courses with a grade of "C" (2.0) or better in each course:

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
ENG 151 or ENG 152 or ENG 153	Writing and Rhetoric I Writing and Reading Writing and Reading: Special Topics	5
HLTH 202	Intro to Health & Lifestyle Choices	4
COMS 103	Fundamentals of Public Speaking	4
MATH 109 or higher	Consumer Mathematics	4-5
PESS 125	Human Movement and Fitness	4
PESS 202	Intro to Teaching Physical Education	4
PESS 227	First Aid: Work Place Training	3
PSY 101	General Psychology	5

**Total Hours 38-39**

2. Pass a skill/fitness assessment with a score of 75% or higher. See the Physical Education coordinator to obtain information regarding the test.

3. Achieve and maintain an accumulative g.p.a. of 2.75 or higher.

Upon successful completion of the above requirements, you must seek admission to the major. The Physical Education program application is available from your advisor or the Physical Education coordinator. The completed application form and a current DARS report must be submitted by the end of the second week of the quarter following completion of the admission requirements.

Once admitted to the major, you must meet the criteria for selective admission to and retention in teacher education established by the College of Education (see "Admission to

Professional Education" in the College of Education section), including a 2.75 in your major, in required professional education courses, and overall. To graduate and receive your teaching license in physical education, you must complete all College of Education requirements. Upon completion of the program and passing the Praxis II exam, you are eligible for a provisional teaching license in physical education. You will be granted a Bachelor of Science in Physical Education upon official application for degree conferral and successful completion of all requirements.

#### Required General Education Courses

Ohio requirements for teacher licensure state that you must complete a general studies program that includes the arts, communications, history, literature, mathematics, philosophy, sciences and the social sciences. In addition, the general studies curriculum should incorporate multicultural and global perspectives. You should work closely with your faculty advisor to select courses that would fulfill both Ohio University's General Education Requirements (see the Graduation Requirements section) and the requirements for teacher licensure.

Specific Tier II courses required in this major are:

BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
PSY 101	General Psychology	5

In addition, you must complete COMS 103 Fundamentals of Public Speaking before you can apply for admission into Professional Education in the College of Education.

#### Physical Education/Teacher Education Core

You must complete the following courses with no grade below a C (2.0):

PESS 205	Fund. of Movement, Rhythms and Dance	3
PESS 240A	Foundations of Sport and Games in Physical Education I	4
PESS 240B	Foundations of Sport and Games in Physical Education II	4
PESS 310	Principles, Theories and Methods of Teaching Early Childhood Physical Ed	6
PESS 330	Principles, Theories and Methods of Teaching Middle Childhood Phys. Ed	6
PESS 370	Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education	6
REC 291	Outdoor Pursuits	3

#### Physical Education Required Courses

You must complete the following courses with no grade below a C (2.0):

BIOS 302	Human Anatomy	6
HCCF 160	Intro to Child Development	4
PESS 204	History and Principles of Physical Ed.	4
PESS 212	Intro to Coaching	3
PESS 302	Biomechanics	4
PESS 333	Adapted Physical Educ.	4
PESS 345	Foundations of Exer. Physiology	4
PESS 405	Motor Learning	4
PESS 409	Tests and Measurements	4

You must earn at least a C (2.0) or better in one of the following aquatic courses:

PESS 104	Intermediate Swimming	2
PESS 218	Lifeguard Training	2
PESS 220	Water Safety Instruction	4

#### Required Professional Education Courses

You must complete the following courses with a 2.75 g.p.a. and no grade below a C (2.0):

The following three courses are to be taken together as a block:

EDCI 200	Learning, Human Growth, and Dev	6
EDCI 201	Characteristics of Learners with Exceptionalities	3
EDCI 202	Field Exp. in Typical and Exceptional Student Development	2
EDCT 203	Technological Applications in Education	4

EDCS 301	Educ. and Cultural Diversity	3
EDCI 371A	Instr. Adapt. for Learners with Exceptionalities and Diverse Needs	4
EDCS 400	School, Society, and the Professional Ed.	4
EDSE 350	Sec. School Planning and Instruction	4
EDSE 351	Instructional Process and Curriculum	5
EDPL 461, 463	Student Teaching	13
EDPL 465	Student Teaching Seminar	3

### Exercise Physiology

#### Major code BS8122

Upon successful completion of all requirements and official application for degree conferral, you will be awarded the Bachelor of Science in Sport Sciences. The Sport Sciences–Exercise Physiology option can be used to fulfill most of the prerequisites for admission into the School of Physical Therapy and Graduate Program.

#### Professional Standing Core

You must complete the following courses with no grade below a C (2.0):

PESS 125	Human Movement and Fitness Perspectives	4
PESS 203	Introduction to Exercise Physiology	3
PESS 227	First Aid: Work Place Training	3
HLTH 202	Intro to Health and Lifestyle Choices	4

#### Exercise Physiology Core

BIOS 170 & 171	Introduction to Zoology	10
BIOS 302	Human Anatomy	6
BIOS 345	Human Physiology	4
BIOS 346	Human Physiology Lab	3
CHEM 121-123 or CHEM 151-153	Principles of Chemistry Fundamentals of Chemistry	12 or 15
HCFN 128	Introduction to Nutrition	4
PESS 261	Practicum in Sport Sci.	1
PESS 302	—Biomechanics	4
PESS 348	Exercise Testing and Prescription	5
PESS 405	—Motor Learning	4
PESS 414	Physiology of Exercise	4
PESS 415	Physiology of Exercise Lab	3
PESS 416	—Resistance Training	4
PESS 447	—Exercise Prescription II	4
PHYS 201 & 202	Introduction to Physics	10

#### Exercise Physiology Requirements

ANTH 101 or SOC 101	Intro to Cultural Anthropology Intro to Sociology	5
MATH 163A or MATH 263A	Intro to Calculus Calculus	4
PSY 101	General Psychology	5
PSY 120 or PSY 221	Elementary Statistical Reasoning Statistics for Behavioral Sciences	4 or 5

Select one of the following courses:

HLTH 217	Introduction to Health Care Orgs	4
PESS 213	—Youth and Sports	3
PESS 313	Sport Club Management	3
PESS 421	Principles of Aging and Physical Activity	4
PESS 493	Research Dynamics: Planning, Participation, and Actualization of the Research Process	1-6 (6 max)

Select one of the following courses:

PSY 233	Psychology of Personality	4
PSY 312	Physiological Psychology	4
PSY 321	Human Psychophysiology	4
PSY 332	Abnormal Psychology	4

**PESS Skills Development**

You must complete 10 hours with a minimum of 2 hours required in each of the three categories.

**Aquatics** (2 hours minimum)

PESS 103	Beginning Swimming	2
PESS 104	Intermediate Swimming	2
PESS 110	Aqua Aerobics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instructor	3

**Sport Activities** (2 hours minimum)

PESS 223	Track and Field	2
PESS 224B	Wrestling	2
PESS 260A	Flag Football	2
PESS 260B	Team Handball	2
PESS 262A	Field Hockey	2
PESS 262B	Soccer	2
PESS 264B	Lacrosse	2

**Lifetime Activities** (2 hours minimum)

PESS 107	Modern Dance	2
PESS 115	Rhythmics	2
PESS 116	Social Forms of Dance	2
PESS 117	Folk and Square Dance	2
PESS 141A	Archery	2
PESS 141B	Golf	2
PESS 221A	Tennis	2
PESS 221B	Badminton	2
PESS 224A	Racquetball	2
PESS 263A	Basketball	2
PESS 263B	Volleyball	2
PESS 264A	Softball	2

**Sport Industry****Major code BS8123**

The Sport Industry major, designed to meet the needs of the sport industry, provides the student with academic preparation and practical training that are required to be successful in various careers in the sport industry. These careers include, but are not limited to, sport promotion and marketing, sport information, sport media, customer and community relations, facility and event management, and sport sponsorship and licensing.

Professional preparation for the field of sport management consists of foundation courses in management and courses that apply management principles to the various segments of the sport enterprise. Upon successful completion of all requirements and official application for degree conferral, you will be awarded the Bachelor of Science in Sport Sciences.

Students interested in the Sport Industry program will enter Ohio University with a pre-major code of ND8123 (Pre-Sport Industry). To be admitted into the major, you must apply and be accepted after successful completion of seven courses and achieving an accumulative g.p.a. of 2.5 or higher.

Admission processes and criteria are:

1. Complete the following courses with a grade of "C" (2.0) or better in each course:

ACCT 101	Financial Accounting	4
ECON 103	Principles of Microeconomics	4

ENG 151 or ENG 152 or ENG 153	Writing and Rhetoric I Writing and Reading Writing and Reading: Special Topics	5
COMS 101 or COMS 103	Fundamentals of Human Comm. Fundamentals of Public Speaking	4
MATH 163A	Intro to Calculus	4
PESS 201	Intro to the Sport Industry	3
PESS 225	History of the Sport Industry	4
<b>Total Hours</b>		<b>28</b>

2. Achieve and maintain an accumulative g.p.a. of 2.5 or higher.

Upon successful completion of the above requirements, you must seek admission to the major:

**1. For Pre-Sport Industry Majors**

The Sport Industry Program Application form is available from your faculty advisor. The completed form and a current DARS report must be submitted by the end of the second week of the quarter following completion of the admission requirements to the Sport Industry coordinator.

**2. All Other Majors**

For students in any other major seeking admission into the Sport Industry major, the Sport Industry Program Application form is available from the Sport Industry coordinator. The completed form and a current DARS report must be returned to the coordinator by the **seventh day** of the quarter, following completion of the admission requirements.

Upon review and verification of your g.p.a. and course requirements, applicants meeting the requirements will be admitted into the program. Students are advised to make a decision about a major as early as possible in order to apply to the program in a timely manner.

**Sport Industry Core Requirements**

Business and Economics		
ACCT 102	Managerial Accounting	4
BUSL 255	Law and Society	4
ECON 104	Principles of Macroeconomics	4
FIN 325	Foundations of Finance	4
HRM 320	Human Resources Management	4
MGT 202	Management	4
MKT 202	Marketing Principles	4
OPN 310	Principles of Operation	4
Sport Management		
BUSL 465	Law of Sports	4
ECON 318	Economics of Sports	4
PESS 261	Practicum in Sport Sciences	1-5
PESS 376	Athletic Facility Planning and Mgt	4
PESS 391	Risk Management	4
PESS 401	Sport Marketing	4
PESS 412	Sports Governance and Ethics	4
PESS 425	Financial Issues in Sport	4
PESS 430	Sports Sales and Promotion	4
SOC 233	Sociology of Sport	4

**Required Related Courses**

PESS 125	Human Movement & Fitness Perspect.	4
PESS 227	First Aid: Workplace Training	3
PESS 228	Cardiopulmonary Resuscitation	1
PSY 101	General Psychology	5
PSY 221	Statistics for the Behavior Sciences	5
SOC 101	Introduction to Sociology	5

Select three (3) different PED courses.

Select three (3) of the following courses or PESS 490, Internship in Sport Sciences:

HIST 319B	American Baseball to 1930	4
HIST 319C	American Baseball since 1930	4
HRM 425	Labor Relations	4
PESS 212	Intro to Coaching	3
PESS 213	Youth and Sport	3
PESS 313	Sport Club Management	3
PESS 325	Human Dynamics of Sport	3
PESS 400	Women in Sports	3
PESS 408	The Black Athlete and American Sport	3
PESS 411	The Olympic Movement	3
PESS 421	Principles of Aging & Physical Activity	4
PHIL 231	Philosophy of Sport	4
REC 200	Introduction to Leisure	4
REC 455	Administration of Aquatic Facilities	3
or		
PESS 490	Internship in Sport Sciences	16

## Recreation Studies

The coursework is designed to prepare you in the recreation studies professional program and allow you to concentrate in adventure recreation, outdoor education and camping, campus recreation, recreation management, or therapeutic recreation. After successfully completing the requirements and officially applying for degree conferral, you will be awarded the Bachelor of Science in Recreation Studies.

The curriculum prepares you to assume positions in city recreation and park departments; state and federal government agencies; youth service agencies; industrial agencies; religious organizations; camping; commercial, institutional, or collegiate recreation.

## Adventure Recreation

### Major code BS8113

This option focuses upon planning, conducting, and administering high adventure and wilderness skills programs. You may qualify for positions with various wilderness and survival schools, outdoor leadership programs, expedition outfitters, and commercial enterprises in high adventure activities. Career opportunities are also increasing in programs involving juvenile offenders in both public and private agencies.

### Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Phytness	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid, Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid, Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athlete Officiating in Football	3
PESS 340	Athlete Officiating in Basketball	3
PESS 341	Athlete Officiating in Baseball	3
PESS 391*	Risk Management	4

REC 290	Recreational Sport Officiating	3
REC 381	Management of Recreational Sports	4

### Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Recreation for Individ. with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec and Leisure	4
REC 449	Recreation Administration	4
REC 460	Adv. Concepts and Issues in Leisure	4

### Recreation Tool Courses

(Select 16 hrs)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experience in Recreation	1-3
REC 314*	Camping	4
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, THAR

### Physical Education or Recreation Activities

Select 4 PED courses.

### Professional Courses

(Select a minimum of 35 hours from:)

PBIO 225	Flowers	4
PBIO 303	Medicinal Plants of Ohio	3
GEOL 130	Geology of National Parks	4
GEOL 215	Environ. Geology	4
GEOL 231	Water and Pollution	4
GEOL 330	Principles of Geomorphology	5
GEOL 434	Geological Apps of Remote Sensing	4
REC 101*	Orienteering	1
REC 102*	Advanced Orienteering	1
REC 105	Whitewater Rafting	1
REC 106	Hunting	1
REC 107	Trap Shooting	1
REC 108	Technical Climbing	1
REC 111	Winter Activities	1
REC 112	Backpacking	1
REC 113	Canoeing	1
REC 114	Kayaking	1
REC 115	Ropes	1
REC 116	Rescue Techniques	1
REC 291	Outdoor Pursuits	3
REC 311	Expedition Management	3
REC 390*	Wilderness Survival	3
REC 475*	Adventure Programming	3
SOC 201	Contemporary Social Problems	4
SOC 210	Intro to Social Psychology	4
SOC 260	American Criminal Justice	4
SOC 261	Deviant Behavior	4
SOC 363	Juvenile Delinquency	4
SOC 466	Penology	4
SOC 101	Intro to Social Welfare and Social Work	3

\*Required

## Campus Recreation

### Major code BS8128

This option focuses upon primary and specific components of a modern collegiate recreation program and will include courses in professional ethics and issues, facility operations, program management, legal liability and risk management, marketing, fiscal management, and social issues.

#### Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
PESS 391*	Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

#### Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Plan. and Operating Rec. Areas and Fac.	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 440	Internship	16
REC 445	Research and Evaluation and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4

#### Recreation Tool Courses

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experience in Recreation	1-3
REC 314	Camping	4
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, or THAR.

#### Physical Education or Recreation Activities

Select 4 courses from any REC 100-level course or PED course.

#### Professional Courses: Campus Recreation

PESS 425*	Financial Issues in Sport	4
REC 435*	Mgt of Campus Recreation Facilities	3
REC 450*	Issues in Campus Recreation	3

#### Facilities and Programs

(Select a minimum of 9 hours)

REC 291	Outdoor Pursuits	3
REC 313	Fitness and Wellness Prog. in Campus Rec.	3
REC 316	Social Programming and Special Events in Campus Recreation	3
REC 455	Administration of Aquatic Facilities	3

#### Management and Organization

(Select a minimum of 4 hours)

MGT 202	Management	4
MGT 340	Organizational Behavior	4

#### Legal and Social Issues

(Select a minimum of 8 hours)

8USL 255	Law and Society	4
SOC 201 or SOC 233	Contemporary Social Problems Sociology of Sport	4

#### Marketing and Promotion

(Select a minimum of 4 hours)

JOUR 250	Advertising Principles	4
MKT 202	Marketing Principles	4

#### \* Required

## Outdoor Education and Camping

### Major code BS8108

This option focuses upon planning, conducting, and administering outdoor recreation programs, with special emphasis available for school-oriented programs and resident camping. You may qualify for positions as an interpretive naturalist, outdoor education resource person, camp director, visitor information center director, or supervisor of outdoor recreation programs in federal, state, or local agencies.

#### Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
PESS 391*	Risk Management	4
REC 290	Recreational Sport Officiating	3
REC 381	Management of Recreational Sports	4

#### Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Exp. in Recreation	3
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec. and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4



**Recreation Tool Courses**

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Exp. in Recreation	1-3
REC 314*	Camping	4
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, THAR

**Physical Education or Recreation Activities**

Select 4 courses from any REC 100-level course (except REC 101, 102, and 103) or PED course.

**Professional Courses**

(Select a minimum of 35 hours from:)

ASTR 100	Survey of Astronomy	4
BIOS 170	Intro to Zoology	5
BIOS 435	Entomology	6
BIOS 475 or PBIO 425	Sociobiology Plant Ecology	3 or 5
GEOG 101 or GEOL 215	Elements of Physical Geography Environ. Geology	5 or 4
GEOG 201	Environmental Geography	4
GEOG 260	Maps	4
GEOL 101	Intro to Geology	5
GEOL 120	The Mobile Earth	4
GEOL 130	Geology of National Parks	4
GEOL 211	Intro to Oceanography	4
GEOL 221	Earth and Life History	4
GEOL 231	Water and Pollution	4
GEOL 312	Earth Materials and Resources	5
GEOL 315	Mineralogy	5
GEOL 320	Rocks	3
PBIO 102	Plant Biology	5
PBIO 103	Plants and People	4
PBIO 109	Americans and their Forests: Ecology, Conservation and Policy	4
PBIO 209	Plant Ecology	4
PBIO 225	Flowers	4
PBIO 247	Vegetation of North America	4
PBIO 303	Medicinal Plants of Ohio	3
PBIO 311	Biology and Human Affairs	4
PBIO 426	Physiological Plant Ecology	5
PSY 275	Educational Psychology	4
PEC 101	Orienteering	1
PEC 102	Advanced Orienteering	1
PEC 103 or PEC 390	Survival I Wilderness Survival	1 or 3

**\*Required****Recreation Management****Major code BS8109**

This option focuses upon the administration of recreation programs and qualifies you for positions with public recreation, voluntary agencies, resident institutions, and camp administration.

**Health/Sport Sciences/Recreation**

(Select 20 hours)

HEALTH 202	Intro to Health and Lifestyle Choices	4
HEALTH 204	Alcohol, Tobacco, and Other Drugs	4
HEALTH 205	Preventing HIV and STDs	4
PESS 115	Recreation	2

PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
PESS 391*	Risk Management	4
REC 290*	Recreational Sport Officiating	3
REC 381*	Management of Recreational Sports	4

**Required Professional Recreation Courses**

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec. and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4

**Recreation Tool Courses**

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experience in Recreation	1-3
REC 314	Camping	4
REC 320	Challenge Course Theory and Practice	3

or select any course from ART, IART 150, DANC, MUS, THAR

**Physical Education or Recreation Activities**

Select 4 courses from any REC 100-level course or PED course.

**Professional Courses**

(Select a minimum of 35 hours)

ACCT 101	Financial Accounting	4
BUSL 255	Law and Society	4
BUSL 465	Law of Sports	4
CS 120*	Computer Science Survey	4
CS 220	Intro to Computing	5
ECON 103	Principles of Microeconomics	4
HRM 320	Human Resource Management	4
HRM 425	Labor Relations	4
HRM 460	Human Resource Policy, Planning, and Info. Sys.	4
JOUR 105 or ICOM 105	Intro to Mass Communication Intro to Mass Communication	4
JOUR 221	Graphics of Communication	5
JOUR 231	News Writing	4
JOUR 250	Principles of Advertising	4
JOUR 471	Public Relations Principles	4
MGT 202	Management	4
MGT 340	Org. Behavior - Micro Perspective	4
MGT 428	Nonindustrial Labor Relations	4
MKT 202	Marketing Principles	4
PEL 311	Expedition Management	3

**\*Required**

## Therapeutic Recreation

### Major code BS8104

The therapeutic recreation option prepares students to help others improve their health and well being through the use of recreation activities. Therapeutic recreation specialists most often provide treatment and recreation services to people with disabilities, including those with physical, cognitive, social, and emotional impairments. Settings for employment may include hospital and rehabilitation facilities, community health agencies, long-term care residences, corrections facilities, and city parks and recreation departments. This option includes the eligibility requisites to sit for the national exam to become certified as a Certified Therapeutic Recreation Specialist (CTRS).

### Health/Sport Sciences/Recreation

(Select 20 hours)

HLTH 202	Intro to Health and Lifestyle Choices	4
HLTH 204	Alcohol, Tobacco, and Other Drugs	4
HLTH 205	Preventing HIV and STIs	4
HLTH 230*	Medical Terminology	2
PESS 115	Rhythmics	2
PESS 218	Life Guard Training	2
PESS 220	Water Safety Instruction	4
PESS 227*	First Aid: Work Place Training	3
PESS 228	CPR	1
PESS 327	First Aid: Work Place Training Instructor	3
PESS 328	Instructor CPR	3
PESS 339	Athletic Officiating in Football	3
PESS 340	Athletic Officiating in Basketball	3
PESS 341	Athletic Officiating in Baseball	3
PESS 391*	Risk Management	4
REC 290	Recreational Sport Officiating	3
REC 381	Management of Recreational Sports	4

### Required Professional Recreation Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4
REC 315	Outdoor Education and Recreation	4
REC 336	Field Experience in Recreation	3
REC 440	Internship	16
REC 445	Research and Evaluation Methods in Rec and Leisure	4
REC 449	Recreation Administration	4
REC 460	Advanced Concepts and Issues in Leisure	4

### Recreation Tool Courses

(Select 16 hours)

PESS 213	Youth and Sports	3
PESS 313	Sport Club Management	3
PSY 120* or PSY 221*	Elementary Statistical Reasoning Statistics for the Behavioral Sciences	4 or 5
REC 236	Field Experiences in Recreation	1-3
REC 314	Camping	4
REC 320	Challenge Course Theory and Practice	3

Or select any course from ART, IART 150, DANC, MUS, THAR

### Physical Education or Recreation Activities

Select 4 courses from any REC 100-level course or PED course.

### Required Professional Courses

BIOS 301	Human Anatomy	6
PSY 101	General Psychology	5
PSY 273	Child and Adolescent Psych.	4
PSY 332	Abnormal Psychology	4
PSY 374	Psychology of Adulthood and Aging	4
REC 270	Intro to Therapeutic Rec Serv	4
REC 376	Practices in Therapeutic Rec.	4
REC 377	Admin. of Therapeutic Recreation	4
REC 470	Assessment & Documentation in Therapeutic Recreation	4
REC 471	Program Design in Therapeutic Rec.	4
REC 472	Trends and Issues in Therapeutic Rec.	4

Note: prerequisites to BIOS 302 include BIOL 101 or BIOS 103 or BIOS 170 and 171.

Note: NCTRC requires a minimum 12-week internship (REC 440).

### \*Required

## Minor in Recreation

### Minor code OR8109

To earn a minor in recreation, a minimum of 35 hours of recreation coursework must be completed. The following courses, which total 20 hours, are required. The remaining courses (minimum of 15 hours) must be completed at the REC 200-level and above. To apply REC 418 courses to the minor requires approval of the Recreation Studies Coordinator prior to registration in these courses.

### Required Courses

REC 200	Intro to Leisure	4
REC 250	Recreation Leadership	4
REC 275	Rec. for Individuals with Disabilities	4
REC 305	Planning and Operating Rec. Areas and Facilities	4
REC 310	Recreation Programming	4

# Honors Tutorial College

35 Park Place

C. Ann Fidler  
Dean

Jan Hodson  
Assistant Dean

The Honors Tutorial College offers 26 challenging programs of study that provide a unique undergraduate educational experience to a select number of qualified students.

Students admitted to the College undertake a substantial portion of the core curriculum in their respective disciplines through a series of tutorials. A tutorial consists of a full-time faculty member meeting with students either singly or in small seminars. In pursuing this method of instruction the College draws upon the rich educational traditions of British universities such as Cambridge and Oxford. Although other colleges and universities have adopted some aspects of the tutorial model, Ohio University remains the only institution in the United States with a degree-granting college incorporating all the essential features of a tutorial-based education. The success of the College's approach to undergraduate education is evident in its distinguished 30-year history and the impressive achievements of its alumni.

## Goals, Resources, and Expectations of the College

Through flexibility, mentoring and abundant academic resources, the Honors Tutorial College aims to give high-ability students every opportunity to further their intellectual development. College requirements are kept to a minimum in order to allow students to explore a range of disciplines, engage in substantial creative and/or research work, acquire a high degree of proficiency in a particular subject matter, and participate in meaningful extracurricular activities. Tutorials allow individuals to work closely with accomplished scholars who take particular pride in helping Honors Tutorial College students fulfill their current and future ambitions. This special combination of freedom and guidance, which is one of the hallmarks of the College, is enhanced by the number of exclusive academic resources made available to its students. These include priority registration, special residence hall availability, enhanced library privileges, research support, eligibility to undertake graduate work, unique education abroad opportunities, and scholarship availability.

A tutorial-based curriculum requires highly developed academic abilities, but it also necessitates motivation, maturity, focus, energy, and a combination of self-confidence and humility. To succeed in the Honors

Tutorial College, a student must recognize that she or he bears the responsibility for understanding each week's tutorial material. All tutorials are dialogues—exchanges of thoughts, questions, and possibilities—not lectures. There are no back row seats in a tutorial. At every tutorial, students are called upon to participate in an intellectual exchange in which quality is measured by thoughtful mastery of the subject under consideration.

In addition to being comfortable with the expectations of the tutorial mode of instruction, students must also consider other characteristics of the College. These include participation of all Honors Tutorial College freshmen in a seminar held in fall quarter and an expectation that membership in the College brings with it community service obligations. The seminar and community service work play a critical role in establishing camaraderie between students and maintaining a vibrant, active community of young scholars.

## Honors Tutorial College Programs of Study

Through formal arrangements with various academic departments in the University, the Honors Tutorial College offers majors in

Art History  
Art Studies  
Biological Sciences  
Business  
Chemistry

Classics  
Communication Studies  
Computer Science  
Dance  
Engineering/Physics  
English  
Environmental and Plant Biology  
Film  
French  
Hearing, Speech and Language Sciences  
History  
Journalism  
Mathematics  
Philosophy  
Physics  
Political Science  
Social Work  
Sociology/Sociology, Criminology  
Spanish  
Telecommunications  
Theater

Only these disciplines are available as programs of study at the present time. Certification in secondary education may be added to the tutorial degree by a limited number of students.

Detailed descriptions of programs of study can be obtained by contacting

Honors Tutorial College  
Ohio University  
35 Park Place  
Athens OH 45701-2979  
Telephone 740 593 2723  
Fax 740 593 9521  
E-mail [honors.college@ohio.edu](mailto:honors.college@ohio.edu)  
http://www.ohio.edu

## Administration and Content of Programs of Study

Programs of study are administered by a full-time faculty member appointed by the College. These professors, known as Directors of Studies, act as academic advisors, work with their colleagues to arrange tutorials, conduct admission interviews, and coordinate other aspects of their particular programs of study.

Although Directors of Studies assist students in selecting the proper courses each quarter, students are responsible for seeing that all requirements are met.

Each program of study has its own set of specific academic goals. All programs involve tutorials, but some also ask students to complete a sequence of collateral studies, to participate in a seminar or a lecture series, to pass a set of comprehensive examinations, or to undertake laboratory, field, or studio work. All programs of study also require the completion of a thesis project. Detailed descriptions of the academic expectations for each program of study can be found on the College Web site or obtained by contacting the College by mail or e-mail.

## Degree Requirements

To earn a bachelor's degree in the Honors Tutorial College, you must fulfill all the academic requirements of your program of study, maintain a 3.5 g.p.a. in the courses that are required by your program of study, have at least a 3.0 overall grade point average (g.p.a.), and satisfy the University's English composition requirement. You must also participate in a freshman seminar and a community service project.

The Honors Tutorial College does not mandate a fixed hour or residency requirement or a specific course distribution (except as required by individual programs of study). To earn a second bachelor's degree in another college at Ohio University, you also must complete all the requirements established by the second college.

Degrees conferred by the College include the Bachelor of Fine Arts in (major), Bachelor of Science in Journalism, Bachelor of Science in Communication in (major), Bachelor of Arts in (major), Bachelor of Science

in (major), and Bachelor of Business Administration.

## Placement of Graduates

The Honors Tutorial College has earned a reputation for graduate and professional school placement. To date, most students wishing to continue their educations have been placed in noted master's programs, doctoral programs, law schools, and medical schools. Other graduates have readily found employment in fields related to their undergraduate work, particularly in journalism, theater, hearing and speech, and business. The small size of the College and the nature of the curriculum allows faculty and the administrators of the College to be of maximum assistance in career planning and graduate school applications.

## Housing Privileges

If you are admitted to the Honors Tutorial College, you will be eligible to live in Hoover House, or the Read/Johnson Scholar Complex. Hoover House is the traditional Honors Tutorial College residence hall. Read Hall is a newly renovated dormitory that became an "all scholars" living community in fall 2003. Both housing options provide environments conducive to students who must master the academic challenges of Honors Tutorial College programs of study. The College provides detailed information discussing the specific characteristics of each dormitory to students who have been offered admission.

## Admission and Application

Because of the nature of its core curriculum, the Honors Tutorial College must restrict the numbers of students that it can accept each year. As a result, the admissions climate is highly competitive. A variety of elements play a role in admission decisions. Applicants must supply current high school transcripts, standardized test scores (SAT and/or ACT), a senior year schedule of classes, and an essay written specifically for the Honors Tutorial College. Some programs of study also require the submission of additional material. Students who are home-schooled should contact the College for specific application instructions. An application that does not contain all of these items

will be rejected without receiving a substantive review. Students who are successful at gaining admission to the College generally also supply supporting information beyond the minimum requirements outlined above. Submissions of writing samples, a creative portfolio, and letters of recommendation from teachers or members of the community are strongly encouraged.

The process of application begins with filling out the standard Ohio University application form. Under the section marked "College," you must indicate that you wish to apply to the Honors Tutorial College. In the space that asks for your major, you need to fill in one of the 26 programs of study listed above. There is no undecided option in the Honors Tutorial College; you must indicate a program of study. If you wish to be considered for admission to more than one program of study, please make this clear on your application. Finally, when filling out the major code make sure to use the codes listed under the Honors Tutorial College heading. Failure to follow these steps may prevent your application from being transferred to the College for consideration. All required and optional materials must be received no later than December 15th.

Decisions about which students will be invited to campus for a personal interview are made after two rounds of file review. These interviews, held in January of the year that an applicant wishes to enter the College, are a required part of the admission process. After all of the interviews are conducted, a determination will be made about which applicants are to be offered admission. Individuals who are invited to join the College must accept or decline admission by May 1st.

## Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

## Office of Nationally Competitive Awards (ONCA)

For information about ONCA, refer to the "University-Wide Academic Opportunities" section.

# University College

140 Chubb Hall

**David Descutner**  
*Dean and Associate Provost  
for Undergraduate Studies*

**William L. Allen**  
*Associate Dean*

**Laura Chapman**  
*Assistant Dean, Student Services*

**Cynthia King**  
*Director, Academic Advancement  
Center*

**Karin Sandell**  
*Director, Center for Teaching  
Excellence*

**Sherrie Gradin**  
*Director, Center for Writing  
Excellence*

**Dan Barton**  
**Kraig Curry**  
**Richard Linn**  
**Lora Munsell**  
**Greg Oberlin**  
**Char Rae**  
*Academic Advisors*

University College serves both undecided students who are exploring the University's options before selecting a major and degree program and students who are seeking the Bachelor of Specialized Studies, the Bachelor of Criminal Justice, or associate's degrees.

University College advances the mission of Ohio University by providing institutional leadership across colleges to promote teaching and learning. The college provides a number of University-wide services. University College staff members manage orientation and advisement programs, such as Precollege, that assist you in reviewing your interests, planning academic programs, and adjusting to University life. University College also includes the Center for Teaching Excellence, the Center for Writing Excellence, and the Academic Advancement Center, which support teaching and learning. In addition, it oversees the University's general education program and fosters student success through such initiatives as residential learning communities.

## Majors

### Associate in Arts

Arts and Humanities Emphasis  
Social Sciences Emphasis

### Associate in Individualized Studies

### Associate in Science

Bachelor of Criminal Justice  
Bachelor of Specialized Studies

## Admission Requirements

Any Ohio University student who has fewer than 90 credit hours can be admitted to University College as an undecided student. A separate application is required to enter the Associate in Individualized Studies program, the Bachelor of Criminal Justice program, and the Bachelor of Specialized Studies program. See descriptions of each program later in this section for additional information.

## Advising

No single activity of University College is given a higher priority than academic advising. University College faculty advisors and professional advisors strive to inform you about academic options and to assist you with decisions about how you can best use the University to promote your learning and development.

Undecided students, or those who wish to investigate academic options before selecting a major, are admitted to University College. Undecided first-year students typically are assigned two advisors. One is a member of the faculty; the other is a member of the University College professional advising

staff. Both will provide information and advice about University programs, choosing a major program of study, and University requirements. You should consult with your advisor about course selection before preregistration each quarter. While advisor conferences are particularly important during preregistration, it is recommended that you maintain regular contact with your advisor for assistance with concerns related to academic and career planning. If you are an associate's degree, specialized studies, criminal justice, or nondegree student, you are also assigned a University College advisor to help you plan an appropriate program. In addition, students in any other college may seek out a University College advisor when their questions touch on University-wide issues or University College programs, or when they are investigating a change of program.

If you are in University College as an undecided student but have a tentative major in mind, you should refer to those requirements outlined elsewhere in this catalog. If you are interested in determining your progress toward one or more majors, the college office can provide you with a "what if" checklist for that major to answer these questions.

Your faculty advisor assists in the preparation of a schedule each quarter so that you select the proper sequence of courses in the major and appropriately related courses. However, it is the student's responsibility to know and follow current requirements and procedures at the departmental, college, and university levels.

## Academic and Other Requirements

If you are a University College undecided student, you are required to move into a major program by the time you have earned 90 credit hours (junior rank). Students who have earned more than 90 hours and are still undecided, including new transfer students, will not be permitted to register for subsequent quarters. All majors require you to complete residency hours, which may be up to two years.

## Special Programs

### College Adjustment Program (CAP)

CAP has provided services and opportunities to help qualified Ohio University students adjust to the challenges of college life since 1979. Along the way CAP has developed a strong record of aiding in student retention and graduation. CAP is located in the Academic Advancement Center (101 Alden Library) and is supported by Ohio University and by a Student Support Services TRIO grant from the U.S. Department of Education.

The following are some examples of the services CAP offers to assist students as they work toward graduation:

- Special academic courses in learning strategies and computing
- Free individual tutoring
- Group tutoring for math and math-related courses
- An instructional computer lab
- In-depth, one-on-one academic advising
- Career planning and guidance
- Intensive support for students on probation
- Peer advisors to help you find your way
- Tickets to unique cultural and social events on campus and around town

Eligibility for CAP is determined according to a two tier system. Students must satisfy both tiers to be eligible for CAP. As CAP is a small program, space is limited and **eligibility does not guarantee admission**. CAP serves approximately 275 students annually.

**Tier 1:** To meet this requirement a student must demonstrate an academic need. This is defined as:

- having an ACT Composite less than or equal to 22 or
- having an SAT Combined Score less than or equal to 1100 or
- being ranked in the bottom 60% of his/her high school class or
- possessing a General Education Diploma (GED) or
- being on academic probation (continuing students)

If a student satisfies the Tier 1 requirement, s/he **must also meet at least one of the Tier 2 requirements**.

**Tier 2:** To satisfy this requirement a student must:

- be a first generation college student (neither parent graduated from a four-year school) or
- come from a family whose income meets federal guidelines for low-income level or
- have a documented disability and be registered with the Office of Disability Services

Applicants must also be U.S. citizens or permanent residents.

Most students are admitted to CAP prior to the start of their first quarter at Ohio University. Continuing students who meet the eligibility requirements may be admitted as long as they have earned fewer than 60 hours of credit.

For more information about CAP please logon to <http://www.ohio.edu/aad/cap/>. You may also contact the Academic Advancement Center at 740.593.2644 or the CAP Coordinator via e-mail at [lesterj@ohio.edu](mailto:lesterj@ohio.edu).

### General Education

In 1979 the faculty of Ohio University adopted a comprehensive General Education Program required of all baccalaureate degree students (see Graduation Requirements-University-wide). University College is responsible for coordinating this program. The goal of general education is to broaden and enrich the educational experience of all undergraduate students.

### Support of Teaching and Learning Initiatives

University College houses the Center for Teaching Excellence, which provides support for teaching innovation and the dissemination of the best classroom practices and the Center for Writing

Excellence, which provides institutional support for the integration of writing across the curriculum and the Student Writing Center. The College also fosters learning initiatives such as the development of student learning communities. In recent years it has offered the First Year Enrichment Program, a learning community focused on environmental literacy, and has worked with the Center for Community Service to develop service-learning courses in which community service and course content complement each other. You can obtain more information about these programs from any University College staff member.

### Precollege Orientation

Each summer, University College conducts Precollege Orientation, designed to acquaint you and your parents with the programs of the University. You will meet with faculty, staff, and student advisors to plan an academic program, complete a class schedule, and register for your first quarter. You will also learn about the wide variety of social and group activities available on campus while becoming acquainted with other students in your college. Orientation programs are also held before the winter, spring, and summer quarters for first-year and transfer students.

### First-Year Seminar Course

University College sponsors a special course open to all new students, UC 115 The University Experience. The course is designed to help first-quarter students adjust to the new experiences of university life and take advantage of what the University offers. Topics covered include University resources, time management, University policies and procedures, and academic major selection. The course includes writing activities, such as journals and one or more short papers. Especially recommended for undecided and first-generation college students.

### Learning Communities

Learning communities allow all first-year students the opportunity to have the benefits of a small college atmosphere while providing the benefits of Ohio University's large campus culture. Participation in a learning community guarantees students 2-3 common freshman courses for fall quarter. Each community has no more than 20 students. As a result, participating students develop cohesive relationships with their peers, and

have enriched interaction with faculty. Participation in a learning community will give you the opportunity to engage in academic as well as social activities with members of your community. There are currently three learning community options for incoming first-year students: Linked Courses, Residential Learning Communities, and Non-Residential Learning Communities.

For more information please visit our Web site at <http://www.ohio.edu/rlc/> or contact:

Coordinator of Learning Communities  
University College  
Ohio University, Chubb Hall 140  
740.593.1935  
E-mail: [rlc@www.ohio.edu](mailto:rlc@www.ohio.edu)

#### **University Professor Program**

Another of University College's efforts to enhance and reward undergraduate teaching and learning is the University Professor Program. To acknowledge outstanding undergraduate teaching, Ohio University students nominate and select University Professors on the Athens campus each year. University Professors are tenure-track faculty members who have demonstrated teaching excellence.

Upon selection by the student University Professor Selection Committee and final appointment by the provost, each professor is granted a release from part of his or her normal teaching duties and receives \$2,000 for professional development. The University Professor uses this opportunity to develop and teach two classes of his or her own choosing and design.

The University Professor Selection Committee consists of representatives from the undergraduate student body.

## Degrees Offered

### **Bachelor of Criminal Justice**

#### **Major code BC2209**

The upper-division Criminal Justice program is designed for students who have previously completed an associate's degree program in a technical area related to criminal justice, such as law enforcement, corrections technology, police administration, legal assisting, or human services. If you hold such a degree from a technical or community college, or from a regional campus of Ohio University, you are eligible to apply to the Criminal Justice program and may earn a baccalaureate degree by completing a minimum of 80 additional hours of Ohio University work.

This program offers students with technical education background the opportunity to broaden their exposure to liberal higher education while acquiring the necessary specialization to qualify for careers in such fields as parole and probation, forensic science, adult and juvenile corrections, and police administration. Criminal justice students also may prepare for law school or for further study in graduate or professional schools.

The flexible multi-disciplinary curriculum is composed of a broad range of courses from the social and behavioral sciences, humanities, natural sciences, and professional disciplines, all of which make a contribution to the complex field of criminal justice. You may individualize your program of study to a significant degree through elective courses.

To enter the Criminal Justice program, you must complete a separate degree application form in addition to the application to the University and submit a college transcript showing that you have completed an associate's degree in an appropriate technical field. Applications are available from the University College office or any regional campus student services office. Upon admission, you will be assigned an academic advisor who will assist you in completing your approved program of study.

Bachelor of Criminal Justice students may earn departmental honors through University College. Students must have an accumulated g.p.a. within the top 20 percent of BCJ students to be eligible for departmental honors. An honors thesis is required. Guidelines and an application are available from the college office.

#### **Degree requirements**

- 1** Earn 192 credit hours, including at least 80 hours of Ohio University work.
- 2** Must complete at least 45 hours at the 300 level or above.
- 3** Complete the General Education Requirements (Tier I, II, III). Some courses taken to complete the associate's degree may be equivalent to courses that fulfill these requirements.
- 4** Complete the BCJ core and no fewer than 9 courses from within the following BCJ Major Requirement areas:

#### **BCJ Core:**

Three of the following courses

POLS 409,

SOC 260, SOC 362, SOC 366

**BCJ Major Requirements:**

**Area I:** Basic skills. Three courses, one each from A, B, and C—(A) ENG 305J, 308J, PRCM 325J; (B) COMS 215, 304, POLS 488; (C) MATH 250, PSY 120, PSY 221, SOC 351, SW 350.

**Area II:** Social and political systems. Two courses, one each from A and B—(A) AAS 254, HIST 315C, 315D, SOC 329, 470, 471; (B) POLS 301, 306, 404, 410, 477, SW 390, SOC 309, 364.

**Area III:** Human behavior. Two courses, one each from A and B. Do not take both SOC 210 and PSY 336—(A) PSY 233, PSY 336 or SOC 210, SW 380, SOC 211; (B) PSY 337, SOC 261, 363.

**Area IV:** Organization skills and management. Two courses, one each from A and B—(A) ACCT 101, HRM 320, MGT 202, POLS 210, 412; (B) BUSL 255, 356, HRM 425, MGT 340, POLS 414, PSY 261, SOC 430.

**Recommended electives:**

AAS 440; CS 120 or MIS 201; HIST 307; COMS 205, 306, 405, 410, 420, 422; POLS 320, 401, 402; PSY 273; SOC 367, 464, 467; SW 382.

You choose the remaining hours beyond the core and major requirements in consultation with an academic advisor on the basis of your educational goals and career interests. Internship and field experience programs may be arranged for qualified students without prior professional experience in criminal justice.

Courses taken to complete the associate's degree cannot additionally fulfill BCJ major requirements (Areas I, II, III, and IV) for the baccalaureate degree.

**Bachelor of Specialized Studies****Major code BS1112**

The Bachelor of Specialized Studies program affords undergraduate students at Ohio University the opportunity to design an area of concentration, which stands as the equivalent of an established major. The program permits you to combine available curricula to create a unique field of study. This degree is not appropriate for individuals who have previously earned a bachelor's degree or as a second degree.

The Bachelor of Specialized Studies degree program reflects the recognition that degree programs, as varied as they are at Ohio University, cannot satisfy the legitimate educational requirements of all students. Through specialized studies, you may construct an individualized degree.

To enter the specialized studies program, you must complete an application, available in the University College office, the University College Web site (<http://www.ohio.edu/univcollege/degree/special.htm>), or at a regional campus student services office, and have it reviewed by a University College advisor, Adult Learning Services Advisor, or regional campus student services staff member. You must consult with and gain approval from two faculty members in the preparation of your program, one of whom must be from your area of concentration. The faculty members must be Group 1 or 2. Final admission is granted only upon successful review of the application by the Bachelor of Specialized Studies review committee, which meets quarterly to consider applications. You will receive a letter indicating the decision of the review committee.

As a student in the Bachelor of Specialized Studies program, you may complete one or more academic minors if the courses taken to meet the minor requirements are not included in the Bachelor of Specialized Studies area of concentration plan. You need to indicate your intention to complete a minor at the time you submit your Bachelor of Specialized Studies application.

Up to 48 hours of credit earned through the Experiential Learning Program may be applied to the Bachelor of Specialized Studies degree program. A maximum of 44 quarter hours from the College of Business may be included in a Bachelor of Specialized Studies degree program.

Bachelor of Specialized Studies students may earn departmental honors through University College. Students must have an accumulated g.p.a. within the top 20 percent of B.S.S. students to be eligible to earn departmental honors. An honors thesis is required. Guidelines and an application are available from the college office or on the Web, <http://www.ohio.edu/univcollege/degree/honors.html>.

To submit an application to the specialized studies program for consideration, you must

- 1 Be currently enrolled as a degree-seeking student.
- 2 Have achieved sophomore or higher rank.
- 3 Have earned an accumulative g.p.a. of 2.0 or above.

To graduate with a Bachelor of Specialized Studies degree, you must:

- 1 Earn 192 credit hours, of which at least 80 must be courses with catalog numbers at the 300 level or above as shown in this catalog.
- 2 Complete no fewer than 45 credit hours of credit (the degree residency requirement) after being admitted to the specialized studies program. This total excludes any transfer, transient, Course Credit by Examination, Independent Study coursework, etc., for which the initial registration occurred prior to application to the specialized studies program.
- 3 Complete a minimum of 45 credit hours in the self-designed area of concentration approved by the Bachelor of Specialized Studies review committee. The area of concentration can include courses that are completed, current, and planned at the time of application. The courses included as current and planned in the concentration become requirements for graduation subject to change only by prior permission from a University College advisor and, in some cases, the Bachelor of Specialized Studies review committee.
- 4 Complete the University General Education Requirements.
- 5 Complete the minimum of 48 credit hours of Ohio University coursework to satisfy the University residence requirement.

To have current credit hours included as part of the 45 hour B.S.S. residency requirement, applications must be submitted by the last day of classes in fall, winter, spring quarter, or the full-term summer session.

**Programs and Courses****SPST 425: Senior Seminar**

In a small, interactive class environment, B.S.S. seniors work with each other, Ohio University graduates, and University College faculty and staff to reflect on students' academic experiences and prepare for life beyond Ohio University. Open to all B.S.S. seniors, the course is taught each winter and spring quarters on the Athens campus. This course is offered via correspondence through the Distance Learning Office.



**SPST 490: Internship**

This course is available to all B.S.S. students who develop work or volunteer experience related to their B.S.S. curriculum and who desire to earn up to 10 credit hours for their experience. An internship proposal and 2.5 accumulative gpa is required. Applications are available on the Web (<http://www.ohio.edu/univcollege/degree/internship.html>) and in University College, 140 Chubb Hall.

**The Richard Brackin Scholarship**

A \$750 scholarship awarded each spring to a non-traditional B.S.S. student. Applications are available from a B.S.S. advisor or on the Web (<http://www.ohiou.edu/univcollege/degree/brackin.html>).

**Special Projects Fund**

B.S.S. students may apply for funding for up to \$500 to support a research project or experiential learning activity related to their programs of study. An application is required and may be obtained from an advisor or on the Web (<http://www.ohio.edu/univcollege/degree/spf.html>).

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**Associate's Degrees****General Requirements**

The minimum requirement for an associate's degree is the completion of 96 credits with a 2.0 accumulative g.p.a. at graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any associate's degree. You must earn at least 30 quarter hours of resident credit at Ohio University; if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least 8 of your final 15 hours as resident credit.

Information about all associate's degree programs is available through either the regional campuses or University College. If you plan to pursue an associate's degree, you must consult with a University College staff member or a student services staff member at one of the regional campuses.

If you plan to earn an associate's degree, you must complete an Application for Update of Program(s), available from any college office or regional campus student services office.

If you are currently enrolled in a baccalaureate degree program and want to earn an associate's degree as well, you must complete an Application for Update of Program(s) to add the associate's degree program as a secondary code. Your records will remain in your current college. If you plan to earn a baccalaureate degree after earning the associate's degree, you must complete an Application for Update of Program(s) to add the bachelor's degree program as a primary code.

**Policy on Second Associate's Degrees**

You are not permitted to earn both the A.A. and A.S. degrees. If you have already earned the A.I.S. degree, you are not permitted to earn either the A.A. or A.S. degree.

**Application Toward Bachelor's Degree**

Credit earned while enrolled in an Ohio University associate's degree program will be applied toward an Ohio University baccalaureate program.

If you intend to complete a baccalaureate degree, you should complete Ohio University General Education Requirements while working toward your associate's degree.

**Associate's Degree After a Baccalaureate Degree**

If you have already earned a baccalaureate degree, you may pursue an Associate in Individualized Studies degree, depending on the rationale for doing so and the desired area of concentration. The Associate in Arts or the Associate in Science degree will not be granted if you have already earned a baccalaureate degree.

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**Programs of Study**

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**Associate in Arts/Associate in Science Degrees**

If you are planning to transfer from Ohio University to another institution, you are advised to complete the Transfer Module as part of your A.A. or A.S. degree. See the Admissions section of this catalog.

These degrees are available on all campuses. Each degree requires a minimum of 96 hours. A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.A. or A.S. degree. At least 30 of the total credits earned toward the A.A. or A.S. must be Ohio University credits. Technical courses count only as electives for both the A.A. and A.S. degrees.

If you plan to earn either the A.A. or A.S. degree, contact the associate's degree coordinator in University College so that the valid major code can be properly recorded.

**Associate in Arts—Arts and Humanities Emphasis  
Major code AA1101**

You must meet the following requirements to earn an A.A. with arts and humanities emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	30
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	15
Electives	36
<b>Minimum required for graduation:</b>	<b>96</b>

**Associate in Arts—Social Sciences Emphasis  
Major code AA1110**

You must meet the following requirements to earn an A.A. with social sciences emphasis. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	15
Social Sciences	30
Electives	36
<b>Minimum required for graduation:</b>	<b>96</b>

**Associate in Science  
Major code AS1104**

You must meet the following requirements to earn an

A.S. See the following list for the courses that count under each area.

Arts and Humanities (must include Tier I English composition)	15
Natural Science, Applied Science, and Quantitative Skills (must include Tier I quantitative skills)	30
Social Sciences	15
Electives	36

**Minimum required for graduation: 96**

**You may select courses for the A.A. and A.S. degrees from the following three areas:**

**Arts and Humanities**

African American Studies 110, 150, 210, 211, 250, 310, 350, 355, 356  
 Art 110  
 Art History  
 Classical Archaeology (except 211, 212, 213)  
 Classical Languages (Latin, Greek)  
 Classics in English  
 Dance 150, 170, 171, 351, 352, 353, 370, 471, 472, 473  
 English (except 150)  
 Film 201, 202, 203  
 Foreign Languages (Arabic, Chinese, French, German, Indonesian/Malaysian, Italian, Japanese, Russian, Spanish, Swahili)  
 History 121, 122, 123, 314A–F, 328, 329A–C, 330, 331, 351, 352, 353A–B, 354, 356A–C, 357, 370, 389  
 Humanities  
 Interdisciplinary Arts  
 International Literature: Modern Languages  
 Interpersonal Communication 101  
 Music 100, 120, 124, 125, 150, 321, 322, 323, 421A–F, 427, 428  
 Philosophy (except 120)  
 Theater 150, 170, 270, 271, 272  
 Women's Studies

**Natural Science, Applied Science, and Quantitative Skills**

Anthropology 201, 492, 496  
 Astronomy  
 Biological Sciences  
 Biology 101  
 Chemical Engineering 331  
 Chemistry and Biochemistry (except 115)  
 Communication Systems Management 101  
 Computer Science  
 Engineering and Technology 280, 320, 350, 470  
 Environmental and Plant Biology  
 Geography 101, 201, 260, 302, 303, 411  
 Geological Sciences  
 Health Sciences 202  
 Hearing, Speech, and Language Sciences 108  
 Human and Consumer Sciences–Food and Nutrition 128  
 Industrial Technology 110  
 Mathematics (except 101, 102)  
 Mechanical Engineering 100  
 Philosophy 120  
 Physical Science  
 Physics  
 Psychology 120, 221, 226, 312, 314

**Social Sciences**

African American Studies (except those courses listed in Arts and Humanities)  
 Anthropology (except 201, 492, 496)  
 Business Law 255, 370, 442, 475  
 Classical Archaeology 211, 212, 213

**Economics**

Geography (except 101, 201, 260, 302, 303, 411)  
 History (except those courses listed in Arts and Humanities)  
 Human and Consumer Sciences–Child and Family Studies 160  
 Human and Consumer Sciences–Retail Merchandising 250  
 International Studies 103, 113, 118, 121  
 Interpersonal Communication 351, 352, 353  
 Journalism 105  
 Linguistics  
 Management 202  
 Political Science  
 Psychology (except 120, 221, 226, 312, 314)  
 Social Work  
 Sociology  
 Telecommunications 105

## Associate in Individualized Studies Degree

### Major code AI5508

If you wish to pursue a two-year program of study in a field other than those available through one of the other associate's degree options, you may design your own program of study to meet particular goals through the Associate in Individualized Studies degree program, available on the Athens, Chillicothe, Lancaster, and Zanesville campuses.

To be admitted to the program, you must complete an application, available in the University College office, the University College Web site (<http://www.ohio.edu/univcollege/degree/AISAPPL.htm>), or regional campus Student Services Office and schedule an interview with a University College, Adult Learning Services, or regional campus advisor. Admission to the program is granted only upon review of the application by the A.I.S. review committee. Note: If you have previously earned an associate's degree, you are not permitted to earn the A.I.S. degree.

Although there are no specific course or academic area requirements (other than Tier I freshman English composition and quantitative skills), the application must outline your intended course of study, and it must include a proposed area of concentration.

You must consult with two faculty members in the preparation of your program, one of whom must be from your area of concentration. Both faculty members must be Group 1 or 2.

To submit an application for admission to the program, you must currently be enrolled as a degree-seeking student. To graduate with an Associate in Individualized Studies degree, you must

- 1 Earn 96 quarter hours.
- 2 Earn at least 30 quarter hours after admission to the A.I.S. program (degree residency requirement).
- 3 Complete University Tier I freshman-level requirements in English composition and quantitative skills.
- 4 Complete an approved area of concentration, consisting of at least 30 credit hours, which has coherence and educational purpose equivalent to an established degree program.

Applications may be submitted at any time during the quarter. To have current credit hours included as part of the residency requirement, applications must be submitted by the last day of classes of fall, winter, spring quarter, or the full-term summer session.

A maximum of 24 credits earned through the Experiential Learning Program may be applied to the A.I.S. degree.

## **Reserve Officers' Training Corps (ROTC)**

ROTC is based on our Constitution to help "provide for the common defense." Today, when the defense of this nation is so inextricably involved with world issues, our nation needs talented and well trained officers in its military services. If you have the desire and talent to dedicate your time to the service of your country, ROTC can lead to a rewarding career as a military officer. Our military needs the best managers, administrators, engineers, and scientists the nation's schools can produce to be leaders with wide ranges of knowledge and skill. The Reserve Officers' Training Corps, in agreement with universities and colleges, is designed to produce these types of men and women for our nation.

The Army ROTC program at Ohio University is under the Military Science Department (MSC); the Air Force ROTC program is under the Aerospace Studies Department (AST). The University offers two-, three-, and four-year ROTC programs. ROTC is divided into two phases, the general course and the advanced course. Any student can take any of the general classes for elective credit with no military service commitment. Notice: The ROTC programs at Ohio University may not fully comply with University nondiscrimination policies due to the selective process of military service. However, the ROTC programs are in compliance with national nondiscrimination policies and the guidance and policies of the respective military services and the Department of Defense.

### **Scholarships**

Partial and full scholarships are available on a competitive basis for qualified students. These scholarships pay costs of tuition, mandatory student fees, and a book fee. Additionally, recipients receive a tax-free stipend up to \$400 monthly for the period the scholarship is in effect. Non-scholarship students in the advanced course also receive the tax-free stipend. National Guard 100 percent tuition assistance is also available.

### **Summer Field Training**

Field leadership training normally occurs during the summer after the sophomore year (Air Force) or junior year (Army). However, exceptions are possible. All travel expenses, board, living quarters, and uniforms are furnished, and you are paid while attending summer field training.

### **Uniforms and Equipment**

Training equipment and uniforms are loaned to all ROTC students without cost.

### **Commissions**

ROTC is a competitive program. If you successfully complete the ROTC advanced program and the requirements for a baccalaureate degree, you will be qualified for a commission as a second lieutenant in the United States Army or the United States Air Force.

### **Special Schooling**

Upon completing their degree and the ROTC program, Air Force ROTC students will start their professional careers in one of over 40 specialized career fields including Operations, Logistics, Engineering, Communications, Weather, Intelligence, Space and Missiles, and more. Advanced schooling is provided to initially prepare you for your career field. In addition, the Air Force provides opportunity and resources for its officers to pursue professional continuing education and advanced degrees. Army ROTC students may be selected for a variety of specialized training opportunities, such as Airborne School, Air Assault School, Nurse Summer Training Program, Pentagon Internships, and Summer Leadership Internships. Army officers can serve in one of 16 career branches, including: combat, combat support, and combat service support options. Selected officers, after entrance on active duty, are sent to civilian universities or service technical institutes for graduate work leading to a master's degree or to a doctoral degree in specialized fields.

### **Aerospace Studies Program (Air Force ROTC)**

The Aerospace Studies Program is designed to develop the character and skills required of professional Air Force officers. The goal is to provide you with the foundation to become an officer in the United States Air Force, while acquiring a baccalaureate degree in a field of your own choosing.

The curriculum during the first two years (the general program, one credit per quarter) is an introduction to the Air Force and its heritage. It focuses on career opportunities, doctrine, mission, and organization of the United States Air Force. It also includes studies in the development of air power and present and future concepts within the Air Force.

Concurrently with these academic subjects, cadets participate in "Leadership Lab" (for an additional one credit hour per quarter). Leadership lab centers around military customs and organization and include parades, ceremonies, and social events that enable you to gain insight into the dynamics of military leadership. There is no service commitment during the first two years (for non-scholarship cadets), and it is an excellent way for you to explore the lifestyle and career options the Air Force has to offer. You must take both the general course and Leadership Lab to be enrolled in the AFROTC program. The entire general program consists of six quarters of study and is entitled the "General Military Course," or GMC. Optional non-credit summer professional development classes at Air Force bases provide further exposure to an Air Force career and are funded by the Air Force.

The advanced curriculum, entitled the "Professional Officer Course," or POC (three credit hours per quarter), is specifically designed to prepare you for active duty as a commissioned officer. Entry into the POC is selective and based on the needs of the Air Force. Studies include military leadership and principles of management during the junior year. The senior year includes defense policymaking, the military professional, strategy, arms control, and military justice. It emphasizes professional responsibilities of Air Force officers within our democratic society and how the Air Force supports national goals. Through case studies, guest

lectures, and dialogue, you experience a realistic simulation of problems facing officers. As a member of the advanced Professional Officer Course, you develop leadership skills by supervising first year and sophomore cadets in Leadership Lab. You practice communication skills and perform organizational projects similar to those accomplished by active duty Air Force officers. This advanced unit consists of six quarters of on-campus study, six quarters of Leadership Lab, and a summer field leadership training encampment.

**Flight Qualification.** Qualified cadets have the additional option of becoming a flight officer candidate. Selection for either pilot or navigator training will be made during your junior year. If you are selected, you will enter USAF pilot or navigator training following graduation and commissioning.

**Assignment.** After commissioning, you are assigned to a position within the Air Force structure that best combines your academic major and desires with the needs of the Air Force. Past graduates have requested and been assigned to areas of air operations (both flyers and non-flyers); administration; physical and social sciences; engineering; and research and development in aerospace technologies, to name a few. In addition, qualified cadets can pursue military careers in the medical and legal career fields after completing the AFROTC program.

#### **Military Science Program (Army ROTC)**

The Military Science Program is designed to develop the leadership and management skills required of an officer in the United States Army. The military science curriculum complements your normal coursework for a baccalaureate degree and provides a basis for progression toward a commission as an officer in the United States Army. You can join the program at any point in your time at Ohio University, as long as you have two years remaining. This two-year period can be undergraduate or graduate work.

The first two years of Army ROTC is known as the Basic Course (BC). During the BC, you take classes in general military subjects, including an introduction to the Army ROTC program, basic skills, leadership and team building, and leadership and small-unit operations. These courses provide a basic understanding of the Army and a background for the second two years of the program. During the first two years there is a requirement for wearing of uniforms for lab, but no military service obligation is incurred.

Entrance into the second two years of the Army ROTC (the Advanced Course) is selective and competitive. You can qualify for the Advanced Course by completing the BC, by current service in the National Guard or Reserves, or by attending a four-week ROTC Leaders Training Course. The Advanced Course will expand your knowledge of military subjects, including military justice, tactics, ethics and professionalism, management, training, and current issues affecting the military. In addition to the classroom work, the department conducts a leadership laboratory in which all students take part in planning and conducting such adventure-type outdoor training activities as rappelling, survival swimming, marksmanship, physical training, and land navigation. Advanced course students are required to attend a four-week summer National Advanced Leadership Camp between their junior and senior years. All summer camp expenses, including meals, housing, travel, and uniforms, are paid by the Army. In addition, each cadet is paid approximately \$700 in military pay for camp attendance.

The Department of Military Science also sponsors several extracurricular clubs or activity groups organized by the cadets with faculty advisors, such as the Color Guard, Officer Christian Fellowship, and Ranger Challenge. Cadets may be selected on a voluntary basis for attendance at U.S. Army schools such as Airborne (parachutist) School, Air Assault School, Mountain Warfare, and Northern Warfare School.

#### **Nursing Program**

The Army offers two-year scholarships for qualified students pursuing a Bachelor of Science degree in Nursing. Nursing students receive special consideration as they pursue their B.S.N. along with a commission in the U.S. Army. Many of the same requirements apply to nurse candidates. In addition to attending National Advanced Leadership Camp, nursing students receive the opportunity for real-world training at top-quality military and medical centers through the Nurse Summer Training Program.

# Center for International Studies

Yamada House

Josep Rata  
Director

Polly Sandenburgh  
Coordinator, Bachelor of Arts in  
International Studies

Ohio University established the Center for International Studies in 1964 to provide students and citizens of the United States and other countries with opportunities to obtain knowledge about the peoples and cultures of the world, particularly Africa, Asia, and Latin America, and about related international concerns. This endeavor is founded on the broad belief that an appreciation of different values and institutions increases understanding between peoples, enriches the lives of individuals, better prepares them for work in a globalized environment, and assists them in forming opinions on issues that affect the global community.

The Center coordinates teaching, research, publication activities, and community outreach through programs related to three world regions—Africa, Southeast Asia, and Latin America—and comparative and international topics. These programs assist in the development of courses, the expansion of library materials, and the education of globally literate citizens. They support visiting lecturers, film series, seminars, and colloquia throughout the year. The African Studies Program has been designated a National Resource Center for African Studies by the U.S. Department of Education. More than 100 scholarly books relating to Africa, Southeast Asia, and Latin America have appeared in the Center's monograph series.

At the undergraduate level, an interdisciplinary Bachelor of Arts in International Studies with concentrations in Asia, Africa, Europe, and Latin America is offered jointly by the Center and the College of Arts and Sciences. The Center also offers nonmajors a certificate in Asian, African, European, or Latin American Studies. (See complete description under the College of Arts and Sciences section of this catalog.)

## Community Outreach

The Center houses Ohio University's international community outreach arm, the Ohio Valley International Council (OVIC). OVIC provides opportunities for international students, faculty, staff, and former Peace Corps volunteers to interact with K-12 students, the regional campuses, and the community. OVIC houses a teacher resource center that supplies cultural artifacts and curriculum materials to area schools and community organizations. International students coming to Ohio University are encouraged to bring materials with which they can share their cultures.

## Peace Corps

Another of the Center's facilities is the Peace Corps Office, one of about 30 campus-based Peace Corps recruitment offices nationwide. Ohio University counts many returned Peace Corps volunteers among its faculty, staff, and student body.

## International Cooperation

Ohio University maintains a proud tradition of international cooperation through its numerous and diverse relationships.

Special international educational programs exist with scores of institutions across the five continents. An ever increasing number of Ohio University faculty members have studied and taught abroad, and offer courses with an international focus. Returned Peace Corps Volunteers and more than 1100 students from approximately 100 countries contribute to the rich international culture of Ohio University.

Alden Library offers some of the best resources in the state related to international themes and issues. The library's materials include Ohio's largest collection on Africa and one of the best collections on Southeast Asia in the world, while the Latin American collection has especially strong Central American holdings. Ohio University is the official depository for government documents from Botswana, Guatemala, Malaysia, and Swaziland. International periodicals, films, videos, and other media are also readily available from the library's extensive holdings.

## Education Abroad

For information about education abroad opportunities, refer to "Office of Education Abroad" in the "University-Wide Academic Opportunities" section.

# Lifelong Learning

Haning Hall

Thomas Shostak  
Dean

Richard Moffitt  
Assistant Dean

**Lifelong Learning offers a variety of innovative and alternative educational opportunities and experiences for both traditional and nontraditional students. With its mission of outreach and access, it extends the services of Ohio University to learners of all ages throughout the world. Lifelong Learning is the home for Community and Professional Programs, Independent and Distance Learning Programs, Ohio University Without Boundaries, the Ohio University Program in Hong Kong, Summer Sessions Special Programs.**

**Classes, independent learning courses, workshops, and seminars—both credit and noncredit, for both personal and professional development—are offered in response to interests and needs. Some programs may lead to a degree. If you are interested in seeking an Ohio University degree, you must be admitted through normal University procedures. Participants in designated noncredit courses may earn continuing education units (CEUs).**

**Options for learning online are offered through all the programs in Lifelong Learning. These include credit courses in both term-based and independent learning formats as well as self-paced noncredit courses.**

## Lifelong Learning

The following programs and services are available through Lifelong Learning:

**Community and Professional Programs** serves over 10,000 individuals each year in programs as diverse as regional, national, and international professional conferences sponsored by University faculty and departments and professional associations. Professional development opportunities are provided through online courses and certificates, and workshops and certificate programs. While programs offered by Community and Professional Programs do not award academic or college credit, many qualify for professional relicensure and recertification. A full listing of Community and Professional Programs educational opportunities and services is available at <http://www.ohio.edu/noncredit/>.

**Professional Development** programs include career and certificate programs that are taught by University and professional faculty. Professional development staff assists organizations and professions in determining learning needs and developing appropriate solutions to enhance workplace skill and technical development. Many organizations augment hands-on training with Web-based courses available through Community and Professional Programs.

Professional certificate programs in management, Web-design, legal assisting, Sex Offender Treatment, and Law Enforcement training programs are also available. Many professional development offerings carry Continuing Education Units and some are approved for professional license renewal and recertification.

**Conference Management** provides complete conference services including program development and management; Internet, mail, fax and telephone registration; on-site coordination, budgeting and financial management and reporting; marketing, site selection and contract negotiation, and educational meeting planning. These services are available to all University faculty and staff, as well as community, professional, governmental, religious, social, and fraternal organizations. During the summer the University has the capacity to host conference groups of up to 1,500 attendees. Lifelong Learning is the primary contact for organizations interested in the University as a conference site, or in conference management services.

**E-Learning**—Community and Professional Programs E-learning focus on new career and professional development courses and certificates. We offer over 500 non-credit, Web-based (Internet connection required) programs for adults desirous of

increasing their marketable business, professional and technical skills, or who need to acquire new skills in order to become competitive in the business world.

E-learning offers individuals the opportunity to learn new skills at their own pace and on their own schedule. Many courses and all certificates programs provide Continuing Education Units upon successful completion. In addition, E-learning may be eligible for the Lifelong Tax Credit. A complete list of all non-credit E-learning programs can be found at <http://www.ohio.edu/noncredit/>.

**Independent and Distance Learning Programs** offer both Independent Learning courses and advising services for nontraditional students earning selected Ohio University degrees.

Courses completed through any of the Independent and Distance Learning options earn Ohio University resident credit, which can be applied to an Ohio University degree program or transferred to another institution (subject to its restrictions, if any).

**Independent and Distance Learning (IDL) courses by correspondence and online, developed and graded by University faculty, are structured Independent Learning options. Most are presented in a printed course guide or on the Web; other delivery**

media may include audiocassettes, videocassettes, CDs, and computer disks. The content is divided into lessons with submitted assignments at the end of each lesson, allowing students and faculty members to participate in a dialogue that may be conducted by postal mail, fax, or e-mail. Supervised examinations are generally required, although in some courses, a project or paper may be required instead. Students may arrange to take examinations at locations near them.

**Independent Study Projects** can sometimes be arranged in undergraduate courses not currently available as independent study courses. These arrangements are made on an individual basis and are contingent upon the approval of the department in which the course is offered and the availability of a qualified faculty member willing to direct the project. Students and faculty members agree upon the conditions that must be fulfilled for credit to be awarded. The work may include a variety of readings, papers, projects, and examinations. This option is most successfully used by experienced students.

**Course Credit by Examination** represents the least structured method of obtaining college credit through Independent and Distance Learning Programs. Students enroll in the course and receive a brief syllabus that describes the nature of the course, the textbooks and other materials to study, and the type of examination. Students prepare for the examination without assistance from a faculty member. Letter grades, including failures, are recorded. Credit is awarded for a passing grade.

The **External Student Program** is for adults who are interested in a degree but cannot study full time on campus. The program provides help in evaluating previous college course work and planning a degree program. Students can work on one of several associate degrees or the Bachelor of Specialized Studies by taking Independent and Distance Learning courses by correspondence, Course Credit by Examination, or various online options. Many students also take advantage of the Institutes for Adult Learners and portfolio-based assessment.

The **Experiential Learning Program**, or portfolio-based assessment, helps qualified adults document and receive

credit for learning that has occurred through employment or volunteer activities. A maximum of 48 credits may be earned toward a four-year degree. EDCE 203, Credit for Work Experience: Portfolio Development, which focuses on the development of the learning portfolio and is required for the submission of a portfolio, is offered on the Athens and regional campuses and by correspondence.

The **Institutes for Adult Learners** allow adult students to come to the Athens campus for one to three weeks of intensive study. This award-winning program gives students the opportunity to earn college credit with other adults who are pursuing degrees.

The **College Program for the Incarcerated** serves incarcerated adults who wish to earn a degree or college credit. Students receive guidance in evaluating previous college work and planning a degree. The Bachelor of Specialized Studies and three associate degrees are available. Students may also transfer credit to other institutions. Most credit is earned through Independent Learning courses by correspondence or Course Credit by Examination. Comprehensive fees make college-level study more accessible to incarcerated learners.

**Ohio University Without Boundaries** designs, develops, and delivers learning experiences that integrate life, work, and learning on a continual basis, regardless of physical location, for professional working people and other adult learners. Offerings include graduate-level degree programs for targeted professionals, executive or professional education and certificate programs for individuals or partner organizations, and online learning communities that provide enrichment opportunities featuring prominent faculty and alumni. Undergraduate course credit is also available through some programs.

Many programs are built upon a learning architecture that combines the convenience of online collaboration and content acquisition with the proven benefits of face-to-face interaction through a small number of high-intensity residencies. Interactive learning modules and enrichment opportunities are presented in a multimedia format, including video, animation, and sound as well as text.

Graduate program offerings include the master's Program in Athletic

Administration, Executive Master of Public Administration, Executive Ph.D. Curriculum in Higher Education, Master's in Higher Education, and Master of Leadership in Educational Administration. The School of Nursing RN-to-B.S.N. online program, the Real Estate Certificate program, and Winter Intersession are also administered by Ohio University Without Boundaries.

The **School of Nursing RN-to-B.S.N. online program** is for registered nurses who wish to earn a Bachelor of Science in Nursing. The program consists of 12 required nursing courses, all of which are available online, as well as courses that support the nursing major. Short residencies each term complement online learning with face-to-face meetings where clinical skills are honed while working with faculty and classmates.

The **Real Estate Certificate program** consists of four undergraduate courses in Real Estate Technology. Completion of these courses qualifies students to apply to be seated for the Ohio Division of Real Estate state exam.

**Winter Intersession** provides students with an opportunity to complete required courses during the long holiday break in December. A variety of classes, including many Tier III, are offered primarily to juniors and seniors.

A complete list of programs and additional information about Ohio University Without Boundaries is available at <http://www.ouwb.ohiou.edu/>.

**Ohio University Degree Program in Hong Kong** was established in 1985, in cooperation with Hong Kong Baptist University School of Continuing Education. Ohio University in Hong Kong offers Associate in Arts (with Arts and Humanities or Social Science focus), Associate in Science and Associate in Individualized Studies, as well as Bachelor of Arts in Psychology, Bachelor of Arts in Economics with Business Minor, Bachelor of Specialized Studies, and Bachelor of Science in Communication with Organizational Communication focus.

Students can earn their bachelor's degree in four years by attending evening classes full-time or by attending part-time evening classes and taking as long as they need to complete their degree. Students can attend classes on-site in Hong Kong, study at any of the Ohio University campuses in Ohio, or

complete coursework through several Independent and Distance learning modes. Most students combine several of these options. The degree awarded in Hong Kong is the same degree awarded to students attending classes on campuses in Ohio. All course work can be completed without leaving Hong Kong.

**The Office of Summer Sessions and Special Programs** offers

undergraduate and graduate courses, workshops, and special programs on the Athens and regional campuses and online to traditional, non-traditional, visiting, and high school students. Students experience a relaxed campus atmosphere, smaller classes, a friendly and diverse student body, unique and specialized classes and formats, and many extra-curricular events. Summer Sessions provide students with an extra quarter to begin a degree, earn a teaching certificate, learn a new language, update professional skills, or catch up on courses.

For complete information about Summer Sessions, please visit <http://www.ohio.edu/summer/>.

**Ohio University Online** delivers into your home the same dynamic, hands-on instruction that characterizes the best on-campus classes. All lesson content for these term-based classes is on the Web, and all communication is by e-mail, including lesson submission and the instructor's responses. Also, we provide the support you need so you won't be left to "go it alone."

Ohio University Online means:

- Ignoring the clock. Come to the online class whenever it's convenient for you!
- Quality education without giving up quality time.
- Small class sizes with one-on-one instructor guidance and personalized communication.
- A large selection of online course options each quarter.

For complete information about Ohio University Online, please visit <http://www.ohio.edu/ouonline/>.

**For further information about any of these programs, contact**

Lifelong Learning  
Ohio University  
Haning Hall 102  
Athens OH 45701-2979  
Telephone 740.593.1776/877.685.3276  
Web: <http://www.ohio.edu/lifelong/>



# Regional Higher Education

**Charles Bird**  
*Vice President*  
*Regional Higher Education*

**Stephen M. Flaherty**  
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*Regional Higher Education*

**William R. Willan**  
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**Richard F. Bebee**  
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**Paul Bibbins**  
*Dean, Eastern Campus*

**John W. Furlow**  
*Interim Dean, Lancaster Campus*

**Dan L. Evans**  
*Dean, Southern Campus*

**James W. Fonseca**  
*Dean, Zanesville Campus*

Regional Higher Education provides access to Ohio University degree programs for commuting students throughout southeastern Ohio. Student may attend classes at regional campuses in Chillicothe, Ironton, Lancaster, St. Clairsville, and Zanesville, at centers in Proctorville and Pickerington, or access classes through distance technologies. Both the Associate in Arts and the Associate in Science degrees are available on all campuses, and an array of technical programs leading to either the Associate in Applied Business or the Associate in Applied Science is available on most campuses. Students interested in pursuing a baccalaureate degree can complete at least the first two years of nearly all of the baccalaureate majors available at Ohio University, before relocating to the Athens campus to complete their degrees. In many cases students can go well beyond the first two years, and in selected programs the entire baccalaureate degree can be completed. Currently, students enrolled in general business, education, criminal justice, communication studies, communication in human services, specialized studies, health services administration, and nursing can complete the entire baccalaureate degree program on a regional campus. Regional campuses also offer, in cooperation with the Athens campus, on a rotating basis, selected graduate degree programs in areas such as elementary education, special education, educational technology, journalism, engineering management, social studies, social work, and public administration, as well as others, in their service area.

Regional campuses have an open admissions policy for high school graduates. Ohio high school graduates who can commute from home to one of the regional campuses will be admitted as regular full-time or special part-time students. This decision is based on the high school transcript, Scholastic Aptitude Test, or American College Test (preferred). The regional campuses have no residence halls.

## Chillicothe

Ohio University–Chillicothe, founded in 1946 as the first regional campus in Ohio, is located on a 100-acre campus on the western edge of Chillicothe, 45 miles south of Columbus in rural south central Ohio. The Chillicothe campus offers two-year technology programs in business management, child development, computer science technology, environmental engineering, hazardous materials, human services, law enforcement, nursing, and office technology, as well as the Associate in Arts, Science, and Individualized Studies, and baccalaureate degrees in general business, criminal justice, early and middle childhood education, communication studies, communication in human services, specialized studies, and nursing. Time and site-specific master's degrees are offered on a rotating basis.

## Eastern

Ohio University–Eastern, established in 1957, is located in St. Clairsville, Ohio. The campus consists of two buildings, Wilson Shannon Hall (1967) and Robert W. Ney Health and Physical Education Center (1997), sitting in the midst of just over 300 acres of rolling hills in rural, eastern Ohio. Accessible directly from Interstate 70, the campus is about five miles from St. Clairsville, Ohio; 14 miles from Wheeling, West Virginia; and 34 miles from Cambridge, Ohio. The campus has taken a leadership role in providing increased access to education with the development of audio, video, and Web-based courses. The Eastern Campus offers the Associate of Arts and Associate of Science degrees, and all of the coursework for these baccalaureate programs: communication in human services, early and middle childhood education, general business, health services administration, communication studies, nursing, criminal justice, and specialized studies. Transfer programs are offered in pre-professional science and math areas including medicine, dentistry, pharmacy, physical therapy, veterinary science, environmental science, and engineering specialties. Time and site-specific master's degrees are offered on a rotating basis.

## Lancaster

Established in 1956, Ohio University–Lancaster is situated on 113 acres on the northern edge of Lancaster. It serves students throughout central southeastern Ohio by providing the academic foundations of a university education as well as career-oriented professional and technical programs and a variety of cultural opportunities. Ohio University–Lancaster offers two-year technology programs in accounting, business management, child development, computer science, electronic media, industrial maintenance, law enforcement (in cooperation with the Chillicothe campus), materials management, and medical assisting, as well as Associate in Arts, Science, and Individualized Studies degrees. Baccalaureate degrees are available in general business, elementary and middle childhood education, criminal justice, specialized studies, nursing, and communication studies in human services and communication studies. Time and site-specific master's degrees are offered on a rotating basis.

## Southern

Ohio University–Southern was established in 1956 and is located in Ironton, at the center of the metropolitan area that forms the tristate region of Ohio, Kentucky, and West Virginia. Enrollment has more than doubled in the last decade, leading to construction of three new facilities that include classrooms, an auditorium, a library, computer laboratories, a student services center, science laboratories, and offices. Ohio University–Southern offers two-year technology programs in accounting, business management, child development, computer science, electronic media, equine studies, human services, law enforcement, materials management, office technology, and travel and tourism. Associate in Arts, Associate in Science, and baccalaureate degrees in general business, communication, criminal justice, education, health services administration, nursing, and specialized studies are also offered. Time and site-specific master's degrees are offered on a rotating basis.

## Zanesville

Founded in 1939, initially as an adult education center, Ohio University–Zanesville was established as a regional campus in 1946. It shares a 179-acre campus with Muskingum Area Technical College. Ohio University–Zanesville offers the first two years of more than 100 academic majors as well as bachelor's degrees in education, general business, communications in human services, communication studies, specialized studies, nursing, and criminal justice; and associate's degrees in science, arts, nursing, electronic media, and individualized studies. The campus offers a wide variety of noncredit programs as well. The nationally accredited Zanesville nursing program has prepared registered nurses for more than 30 years. Time and site-specific master's degrees are offered on a rotating basis.

## Technical Associate Degree Requirements

The minimum requirement for the Associate in Applied Science (A.A.S.) degree is the completion of 96 credits with a 2.0 accumulative g.p.a. upon graduation. A maximum of 24 credits earned through the Experiential Learning Program may be applied to any technical associate degree. You must earn at least 30 quarter hours of resident credit at Ohio University; if you complete fewer than 60 quarter hours of Ohio University credit, you must earn at least 8 of your final 15 hours as resident credit. You also must meet Ohio University general education requirements for associate degrees.\*

To earn a technical associate degree, you must complete an Application for Update of Program(s), available from any college office or regional campus student services office.

\*See also "Associate's Degrees" in the University College section.

## Accounting Technology (A.A.B.)

### Major code AA5002

Ohio University–Lancaster and Ohio University–Southern offer a two-year program for accounting technicians leading to the Associate in Applied Business degree. Graduates have obtained employment with hospitals, school boards, CPA firms, retail stores, and drug stores, with duties including payroll, accounts receivable, general ledger bookkeeping, auditing, and tax return preparation.

### Core Requirements: 40–43 hours

ATCH 103	Financial Acct. Procedures	4
BMT 115	Found. of Quality and Cont. Improvement	4
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
MATH 113	Algebra (or higher Tier I quant. skills)	4–5
OTEC 230	Business Comm. II	4
Tier II	Social Sciences	3–5

### Major Requirements: 54–56 hours

ATCH 104	Financial Acct. Procedures	4
ATCH 105	Financial Acct. Procedures	4
BMT 110	Intro to Management	4
BMT 140	Concepts of Marketing	4
ECON 104	Prin. of Macroeconomics	4
OTEC 121 or OTEC 122 or OTEC 123	Keyboarding I Keyboarding II Keyboarding III	4
	Electives	2–4

28 hours from among the following:

BMT 210	Finance	4
ATCH 203	Tax and Government Reporting Proced.	4
ATCH 204	Electronic Data Proc. Acct. Procedures	4
ATCH 205	Manufacturing Acct. I	4
ATCH 206	Manufacturing Acct. II	4
ATCH 209	Business Statistics	4
ATCH 225	Federal Income Tax Procedures	4
ATCH 233	Accounting Information Systems	4
ATCH 241	Auditing Procedures	4

**Minimum required for graduation: 96**

## Business Management Technology (A.A.B.)

### Major code AA5006

Ohio University–Chillicothe, Ohio University–Lancaster, and Ohio University–Southern offer a two-year program of study in business management technology leading to the Associate in Applied Business degree. The program offers theoretical concepts taught by instructors who bring practical hands-on knowledge to the classroom. Courses offered take a management approach to the functional areas of business operations; i.e., sales, marketing, supervision, planning, advertising, purchasing, etc. The principles of continuous quality improvement are used throughout the program. For additional information, contact the director of business management technology at your campus.

#### Core Requirements: 32 hours

BMT 110	Intro to Management	4
BMT 115	Found. of Quality and Cont. Improvement	4
BMT 140	Concepts of Marketing	4
BMT 150	Elements of Supervision	4
BMT 210	Managing Finance in Business	4
BMT 250	Practical Personnel Procedures	4
BMT 285	Government and Business	4
BMT 260 or OTEC 230	Business Report Writing Business Communications	4

#### Area of Concentration: 12 hours (3 classes)

#### Related Technology Requirements: 12 hours

BMT 288	Computer Applications for Mgt	4
Select two (2) of the following courses:		
BMT 170	Small Business Operations	4
BMT 200	Intro to Business Computing	4
BMT 275	Managerial Planning	4
CTCH 125	Intro to Computers	4
OTEC 225	Communication Processing I	4
OTEC 226	Communication Processing II	4

#### General Requirements: 42-44 hours

ATCH 103	Financial Acct Procedures	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
PSY 101	General Psychology	5
Tier I	Quantitative Skills	4-5
Tier II	Any Tier II class not from those listed below	4-5

Select four (4) of the following courses:

ATCH 104	Financial Acct Procedures	4
ATCH 105	Financial Acct Procedures	4
BUSL 255	Law and Society	4
ECON 104	Prin. of Macroeconomics	4
COMS 101	Fund. of Human Communication	4
COMS 103	Fundamentals of Public Speaking	4
Tier II	Any Tier II	4

Minimum required for graduation: 98

## Computer Science Technology (A.A.B.)

### Major code AA5010

Ohio University–Lancaster, Ohio University–Chillicothe, and Ohio University–Southern offer a two-year program leading to the Associate in Applied Business degree in computer science technology. Courses offered take a business

approach to the functional areas of computer programming, systems analysis, and network administration. Contact the director of computer science technology for additional information, including employment opportunities and continuation into the baccalaureate degree program in business or organizational communication.

#### Core Requirements: 40-43 hours

ATCH 103 or ACCT 101	Financial Acct. Proc. Financial Accounting	4
ATCH 104 or ACCT 102	Financial Acct. Proc. Managerial Accounting	4
BUSL 255	Law and Society	4
CTCH 125	Intro to Computers	4
ECON 103	Prin. of Microeconomics	4
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
MATH 113 or other Tier I Math (except PHIL 120)	Algebra	4-5
MATH 250	Intro to Prob. and Stat. I	4
OTEC 230 or QBA 201	Business Communication II Intro to Bus. Statistics	4
Tier II	Social Sciences	3-5

#### Major Requirements: 53 hours

CTCH 133	Prog. and Design I	5
CTCH 134	COBOL Programming I	5
CTCH 160	Network Concepts I	4
CTCH 161	Network Concepts II	4
CTCH 162	Network Systems I	4
CTCH 233	Prog. and Design II	5
CTCH 234	COBOL Programming II	5
CTCH 241	Visual Programming	5
CTCH 285	Database Management	4
CTCH 291A	Systems Analysis I	4
CTCH 291B	Systems Analysis II	4
PHIL 120	Principles of Reasoning	4

Minimum required for graduation: 96

## Deaf Studies and Interpreting (A.A.S.)

### Major code AA5003

Ohio University–Chillicothe offers a two-year degree program leading to an Associate in Applied Science in deaf studies and interpreting. The degree is designed for those interested in working as interpreters for the deaf and hearing impaired, providing preparation through courses in the four major sign languages. The program also covers cultural and regional issues, including specific information for law enforcement, medical, educational, and mental health specialists. Students' skills are evaluated at the beginning of the program, again after the first year, and once more at the end.

#### Technical Requirements: 57 hours

DSI 111	Sign Language and Deaf Culture I	4
DSI 112	Sign Language and Deaf Culture II	4
DSI 113	Sign Language and Deaf Culture III	4
DSI 120	Intro to Deaf Studies and Interpreting	1
DSI 161	Orientation to Deafness	3
DSI 191	Interpreting as a Profession	1
DSI 211	Sign Language and Deaf Culture IV	4
DSI 212	Sign Language and Deaf Culture V	4
DSI 213	Sign Language and Deaf Culture VI	4
DSI 221	Practicum I	2

DSI 222	Medical Personnel and Deaf	4
DSI 224	Interpreters and Interpreting	3
DSI 226	Practicum II	2
DSI 260	Critical and Traumatic Situations	3
DSI 286	Study of Deaf Culture	3
DSI 288	Seminar in Deaf Studies	2
DSI 291	The Professional Interpreter	1
LET 275	Law Enforcement and the Deaf	4
LET 276	Legal Rights of Hearing Impaired	4

**General Requirements: 48-49 hours**

ANTH 101 or COMS 410	Intro to Cultural Anthropology Cross-Cultural Comm.	4-5
BIOS 103	Human Biology	5
ENG 151	Freshman Composition	5
COMS 101 or COMS 103	Fund. of Human Communication Fund. of Public Speaking	4
MATH 109	Consumer Mathematics	4
PSY 101	General Psychology	5
PSY 273 or PSY 275	Child and Adoles. Psych. Educational Psychology	4
PSY 304 or EDSP 271	Human Learning and Cognitive Proc. Intro to Educ. of Except. Children and Youth	4
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 329	Race and Ethnic Relations in the U.S.	4

**Minimum required for graduation: 96****Electronic Media (A.A.S.)****Major code AA5013**

Ohio University–Zanesville, Ohio University–Southern, and Ohio University–Lancaster offer a two-year program of study leading to an Associate in Applied Science in electronic media. The program is founded on the belief that through intensive individualized instruction in a hands-on atmosphere, you can prepare in only two years for a beginning position in the electronic media (radio or TV stations, cable TV, corporate communications, or production houses).

Along with those who want a production-intensive education, high school graduates who wish further preparation in order to begin their college careers in the School of Telecommunications on the Athens campus can benefit from the associate's program. The program presents you with the opportunity to sharpen your skills before relocating to the School of Telecommunications on the Athens campus. More than 90 percent of those students who complete the associate's degree and then relocate to Athens secure a bachelor's degree. (A 3.0 g.p.a. is expected for relocation to Athens.) Others who complete the A.A.S. degree move immediately into communications positions.

The radio-TV studios feature multitrack audio recording, radio operations, and computerized video editing equipment. The state-of-the-art facilities, broadly based curriculum, small classes, and internships have proven invaluable for students who want to obtain a full view of the field of electronic media. The department is particularly proud of the fact that a majority of all electronic media students spend time as interns or part-time employees at area stations during enrollment. Recent graduates are now working throughout the United States in the communication industry.

**Technical Requirements: 44 hours**

EM 101	Intro to Electronic Media	3
EM 122 or EM 211 or TCOM 220	Radio-Television Performance other related course approved by advisor Audio Production-Direction Intro to Audio Production	4 4
EM 214 or EM 217	Advanced Audio Prod./Performance Advanced Video Production	2
EM 216 or TCOM 200C	Intro to Video Production Video Production I	4
EM 257	Adver. in the Broadcast and Cable Media	4
EM 289A or EM 289V	Broadcast Workshop (1 cr. hr. each)	3
TCOM 110	Telecom. Writing and Prod. Planning	4
TCOM 170 or TCOM 201	Media Perspectives Media, Culture, and Technology I	4
TCOM 202	Media, Culture, and Technology II	4
TCOM 308	Technical Bases of Telecommunications	4
	Elective	4

**General Requirements: 50-51 hours**

CS 120	Computer Literacy	4
ECON 103 or MGT 200	Prin. of Microeconomics Intro to Management	4
ENG 151	Freshman Composition	5
ENG 280	Expository Writing and the Research Paper	4
or JOUR 133	Precision Lang. for Journalists	
COMS 103	Fund. of Public Speaking	4
JOUR 350	Radio Broadcast News	4
MATH 109 or	Consumer Mathematics other Tier I Quantitative Skills	4-5
POLS 101 or POLS 102	American National Govt. Issues in American Politics	4
Tier II	Arts and Humanities	4
Tier II	Social Sciences	9
	Elective	5

You must complete no fewer than 40 and no more than 48 of the 96 hour total in EM, TCOM, and JOUR courses. You may be required to enroll in additional courses if prerequisites have not been met.

**Minimum required for graduation: 96****Environmental Engineering Technology (A.A.S.)****Major code AA5018**

Ohio University–Chillicothe offers a two-year program of study leading to an Associate in Applied Science degree in environmental engineering technology. This program will prepare its graduates as environmental professionals to work with numerous federal, state, and local government agencies as well as with private field consulting companies and industry. Graduates will be able to perform environmental field testing and remediation, develop environmental programs, and maintain environmental health and safety control and compliance.

**Technical Requirements: 46 hours**

EVT 100	Intro to Environ. Engr. Tech.	3
EVT 110	Computational Methods in Environ. Engr. Tech.	3
EVT 115	Legal Aspects of Environ. Engr.	2
EVT 120	Intro to Environ. Chem.	3
EVT 125, 125L	HAZWOPER Training, Lab	4
EVT 140	Intro to Air Pollution	3
EVT 150	Instrumentation in Environ. Analysis	3
EVT 200, 200L	Site Invest., Sampling, and Monitoring, Lab	4

EVT 210, 210L	Intro to Hlth. Physics, Lab	4
EVT 220	Fluid Mechanics	3
EVT 240, 240L	Air Sampling and Analysis, Lab	4
EVT 245	Wastewater Treatment	3
EVT 250, 250L	Analysis of Environ. Pollutants, Lab	4
EVT 260	Environ. Risk Assessment	3

**General Requirements: 45-53 hours**

CHEM 151, 152, 153 or CHEM 121, 122, 123*	Fund. of Chemistry I, II, III Prin. of Chemistry I, II, III	12-15
CS 135	Special Topics in Programming with BA51C	3
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
MATH 163A or MATH 115*	Intro to Calculus Precalculus	4-5
BIO5 221	Basic Microbiology	4
BIO5 222	Basic Microbiology Lab	2
PHY5 201 or PHY5 251	Intro to Physics General Physics	5
Tier II	Electives	6-10

Any Tier II course not already required by the EVT program is acceptable, but you are encouraged to select from distribution areas other than Natural Sciences and Mathematics if you intend to pursue a bachelor's degree.

\* In special circumstances, students may substitute the CHEM 121 series for the CHEM 151 series, or MATH 115 for MATH 163A. This requires approval by the EVT program coordinator.

**Minimum required for graduation: 96**

**Equine Studies (A.A.S.)****Major code AA5017**

Ohio University-Southern offers a two-year program leading to the Associate in Applied Science in equine studies. The program is designed for students who seek enjoyment and/or employment as trained professionals in the horse industry. Positions you may be prepared to pursue upon graduation will vary with the elective equine courses you choose. Possible areas of employment are stable manager, farm manager, riding instructor, equine secretary or records manager, equine sales and marketing agent, horse trainer or assistant trainer, equine journalist, horse show or event manager, horse show judge, national breed association representative, and equine photographer or artist. For additional information, contact the equine studies program coordinator.

**Technical Requirements: 37-50 hours**

**Note:** A grade of C (2.0) or better is required in all technical requirements courses.

EQU 101	Intro to Equine Studies	4
EQU 110	Equine Nutrition	4
EQU 120	Equine Anatomy and Physiology	4
EQU 125	Equine First Aid and Preventive Medicine	5
EQU 130	Equine Eval. and Selection	3
EQU 200	Equine Reproduction	4
EQU 215	Equine Business Mgt.	4
EQU 220	Farm and Stable Mgt.	4
EQU 290	Equine Field Experience	1-6
EQU 295	Equine Internship	1-6
	Electives	3-6

**Select five of the following courses (at least two seats): 5 hours**

**Note:** A \$50 horse usage fee will be assessed for each riding course.

PED 166	Horseback Saddle Seat I	1
PED 167	Horseback Saddle Seat II	1

PED 168	Horseback Saddle Seat III	1
PED 180	Horseback Saddle Seat IV	1
PED 170	Horseback Hunt Seat I	1
PED 171	Horseback Hunt Seat II	1
PED 172	Horseback Hunt Seat III	1
PED 173	Horseback Hunt Seat IV	1
PED 174	Horseback West I	1
PED 175	Horseback West II	1
PED 176	Horseback West III	1
PED 177	Horseback West IV	1
PED 178	Horseback Jumping I	1
PED 179	Horseback Jumping II	1
PED 194	Horseback Trail Riding	1

**General Requirements: 49 hours**

**Note:** A grade of C (2.0) or better is required in all general requirements courses.

ATCH 103	Financial Acct. Procedures	4
ATCH 104	Financial Acct. Procedures	4
BIOL 101	Principles of Biology	5
CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
COMS 101	Fund. of Human Communication	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MATH 109	Consumer Mathematics	4
MGT 202	Management	4
PE55 227	First Aid	3
PSY 101	General Psychology	5

**Minimum required for graduation: 96**

**Hazardous Materials Technology (A.A.S.)****Major code AA5004**

Ohio University-Chillicothe offers a two-year degree program leading to an Associate in Applied Science in hazardous materials technology. The program is designed for men and women interested in the challenging and expanding career options available in hazardous waste management, control, and remediation. The goal of this program is to further your knowledge of the types and effects of various hazardous substances, as well as to provide clarity on the regulations, standards, and guidelines established for proper waste disposal. For further information on the program and possible career opportunities, contact the director of the hazardous materials technology program. In order to broaden and improve your employment opportunities, you are encouraged to further your education in such bachelor's degree programs as industrial hygiene, environmental engineering technology, or safety sciences.

**Technical Requirements: 49-50 hours**

EVT 100	Intro to Envir. Eng. Tech.	3
HMT 110	Haz. Mat. Regulation I	4
HMT 120	Hazard Communication Standard	3
HMT 130	Industrial Processes	3
HMT 140	Haz. Mat. Regulation II	4
HMT 150	Emergency Response I	3
HMT 200	Haz. Mat. Recov., Incineration, and Disposal	4
HMT 210	Haz. Mat. Regulation III	4
HMT 220	Haz. Mat. Health Effects	3
HMT 230	Emergency Response II	3

HMT 240	Haz. Mat. Testing	4
HMT 289A or LET 250	40-hour HAZWOPER Vice and Narcotic Control	3-4
HMT 289B	Haz. Mat. Instrumtn.	4
HMT 289C	Radiation Biology and Protection	4
<b>General Requirements: 50-54 hours</b>		
BIOL 101 or BIOS 103	Principles of Biology Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
CHEM 121 or CHEM 151	Prin. of Chemistry I Fund. of Chemistry I	4-5
CHEM 122 or CHEM 152	Prin. of Chemistry II Fund. of Chemistry II	4-5
CHEM 123 or CHEM 153	Prin. of Chemistry III Fund. of Chemistry III	4-5
CHEM 301	Organic Chemistry	3
ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
COMS 304	Prin. and Techniques of Interviewing	4
MATH 113	Algebra or higher Tier I MATH	4-5
PESS 227	First Aid	3
PHYS 201	Intro to Physics	5

**Minimum required for graduation: 96**

## Human Services Technology (A.A.S.)

### Major code AA5201

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program leading to an Associate in Applied Science in human services technology. Previous graduates have obtained employment in the fields of mental health, social services, child care, corrections, chemical dependency counseling, and other human service related areas.

#### Technical Requirements: 46-48 hours

HST 100	Intro to Human Services	4
HST 150	Behavior Management I	3
HST 151	Behavior Management II	4
HST 152	Behavior Management III	4
HST 170	Group Dynamics I	4
HST 171	Group Dynamics II	3
HST 190	Case Management	4
HST 200	Personal Management	3
HST 210	Practicum I	2
HST 211	Practicum Seminar I	1
HST 220	Practicum II	2
HST 222	Practicum Seminar II	1
HST 250	Practicum III	2
HST 255	Practicum Seminar III	1
HST 275	Community Resources	3
	HST electives or approved technical electives	6-8

#### Support Course Requirements: 23-26 hours

COMS 101 or COMS 103 or COMS 110	Fundamentals of Human Comm. Fundamentals of Public Speaking Communication between Cultures	4 4 4
	COMS Elective	4
	POLS Elective	4-5
PSY 233 or PSY 273-	Psychology of Personality Child and Adoles. Psych.	4
PSY 332	Abnormal Psychology	4
	Social Science Elective	3-5

#### General Requirements: 27-30 hours

BIOS 101 or BIOL 103 or PBIO 103 or HCFN 128 or HLTH 202 or HLTH 204	Principles of Biology Human Biology Plants and People Intro to Nutrition Intro to Health and Lifestyle Choices Alcohol, Tobacco, and Other Drugs	4-5
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
Tier I	Freshman Composition	5
Tier I	Quantitative Skills	4-5
	Elective (MATH 101 if needed)	4-5

**Minimum required for graduation: 96**

## Industrial Maintenance Technology (A.A.S.)

### Major code AA5020

Ohio University–Lancaster offers a two-year program leading to an Associate in Applied Science in industrial maintenance technology. The program has been developed in response to the great demand expressed by manufacturers for skilled technicians. It is intended to train for career fields related to those of the electrician, machine repair technician, or maintenance technician. Students may direct the program to a specific career opportunity through independent study and externship courses.

#### Technical Requirements: 65 hours

BMT 115	Found. of Quality and Cont. Improvement	4
ETCH 110	Basic Electronics	4
ETCH 111	AC and DC Circuit Analysis	4
ETCH 120	Digital Electronics	4
ETCH 220	Electrical Motors, Control Circuits, and Computers	4
ETCH 221A	Programmable Controllers, Instrumentation, and Process Control I	4
IMT 110	Applied Manufacturing Techniques	3
IMT 115	Welding and Fabricating	3
IMT 117	Metal Machining I	3
IMT 217	Metal Machining II	3
IMT 220	Basic Hydraulics and Pneumatics	4
IMT 230	Tool Design	4
IMT 240	Materials and Material Testing	3
IMT 250	Machine Repair	3
IMT 275	Self-Directed Work Teams	4
IMT 290	Externship	4
MMT 200	Computer Applications in Materials Mgt	4
MMT 263	Process Control	3

#### General Requirements: 31-33 hours

ENG 151	Freshman Composition	5
COMS 103	Fund. of Public Speaking	4
IT 101	Engineering Drawing I	3
IT 102	Engineering Drawing II	3
IT 110	Intro. to Manufacturing Process	4
Tier I	Quantitative Skills	4
Tier II	Humanities	4-5
Tier II	Social Sciences	4-5

#### Highly Recommended Electives: 2-8 hours

IMT 189	Special Topics	1-3
IMT 289	Independent Study	1-5

**Minimum required for graduation: 98**

## Law Enforcement Technology (A.A.S.)

### Major code AA5505

Ohio University–Chillicothe, Ohio University–Lancaster, and Ohio University–Southern offer a two-year program leading to an Associate in Applied Science in law enforcement technology. This program prepares you for employment in law enforcement by providing academic preparation for the contemporary officer. Career opportunities may be available in such areas as state highway patrol, local and county law enforcement agencies, corrections, juvenile authorities, and as probation officers. Upon completion of this program, if interested, you may continue in the Bachelor of Criminal Justice program on the Athens campus. You may also work toward the Athens-based baccalaureate degree in forensic chemistry. Additional information is available from the law enforcement technology program director or Regional Higher Education.

### Technical Requirements: 46 hours

LET 100	Intro to Law Enforcement Tech.	3
LET 110	Police Role in Crime and Delinquency	3
LET 120	Constitution, Criminal, and Civil Law	3
LET 130	Interviewing and Report Writing	3
LET 140	Intro. to Criminalistics	3
LET 150	Police Patrol Operations	3
LET 200	Procedures, Rules, and Test of Evidence	4
LET 210	Cybernetics	3
LET 220	Court Proced. and Proc.	3
LET 230	Police Community Rel.	3
LET 240	Law Enforce., Admin., and Supervision	3
LET 250	Vice and Narcotic Control	3
LET 260	Criminal Investigation	3
LET 270	Arrest, Search, and Seizure	3
LET 280	Traffic Enforce., Educ., and Engineering	3

### General Requirements: 51-54 hours

CS 120	Computer Literacy	4
ENG 151	Freshman Composition	5
COMS 101 or COMS103	Fund. of Human Communication Fund. of Public Speaking	4
PED	Physical Activity Courses (1 cr. each)	6
PESS 227 or HLTH 202	First Aid Health Science and Lifestyle Choices	3-4
POLS 101 or POLS 102 or POLS 210	American National Govt. Issues in American Politics Prin. of Public Admin.	4
POLS 320 or SST 290A	Urban Politics Special Area Studies	3-4
PSY 101	General Psychology	5
SOC 101	Intro to Sociology	5
SOC 201	Contemp. Social Problems	4
SOC 362	Criminology	4
Tier I	Quantitative Skills	4-5

Minimum required for graduation: 96

## Materials Management Technology (A.A.S.)

### Major code AA5021

Ohio University–Lancaster and Ohio University–Southern offer a two-year program leading to the Associate in Applied Science in materials management technology. The program is designed to help students develop skills in maintaining and increasing productivity, and in materials control in an industrial setting. Employment opportunities may include capacity planners, shop dispatchers, expeditors, and first-line supervisors in inventory control. Students may direct the program to a specific career opportunity through independent study and externship courses.

### Technical Requirements: 65-71 hours

ATCH 103	Financial Accounting Procedures	4
ATCH 104	Financial Accounting Procedures	4
BMT 110	Intro to Management	4
BMT 115	Found. of Quality and Cont. Improv.	4
BMT 150	Elements of Supervision	4
BMT 220	Concepts of Purchasing Management	4
BMT 250	Practical Personnel Procedures	4
IMT 110	Applied Manufacturing Techniques	3
MMT 101	Intro to Materials Management	4
MMT 189	Special Topics	1-3
MMT 200	Computer Apps in Materials Mgt	4
MMT 250	Shipping and Warehousing	3
MMT 262	Plant Layout and Material Handling	3
MMT 263	Process Control	3
MMT 264	Production Scheduling	3
MMT 270	Intro to Organizational Behavior	4
MMT 289	Independent Study	1-5
MMT 290	Externship	4
OTEC 121	Keyboarding I	4

### General Requirements: 31-34 hours

BUSL 255	Law and Society	4
ENG 151	Freshman Composition	5
IT 101	Engineering Drawing I	3
IT 102	Engineering Drawing II	3
IT 110	Intro to Manufacturing Process	4
Tier I	Quantitative Skills	4-5
Tier II	Humanities	4-5
Tier II	Social Sciences	4-5

Minimum required for graduation: 96

## Medical Assisting Technology (A.A.S.)

### Major code AA5019

Ohio University–Lancaster offers a two-year program leading to the Associate in Applied Science in medical assisting technology. The program is designed to provide you with the knowledge and skills necessary in both the scientific/clinical areas and the business/administrative areas of the medical assisting field. Medical assistants are allied health professionals who work in a variety of health care settings.

MAT students are required to complete a health form and have a doctor certify that they are sufficiently healthy to perform clinical and externship duties. Students are required to have up-to-date immunizations for MMR, Varicella, TB (within the last 10 years), Hepatitis B, and PPD (within one year of program entry date). Students also are required to have current provider level CPR (adult, child, infant) and First Aid prior to taking Clinical Techniques, Administrative MA, and Externship courses. These must be documented in writing to the MAT program director by March 1st, prior to enrollment in MAT 170 and MAT 201. Contact the director of the Medical Assisting Technology program for further information.

### Technical Requirements: 39 hours

All required MAT courses must be completed with a grade of C or better.

MAT 101	Intro to Medical Assisting	2
MAT 140	Medical Terminology	3
MAT 150	Medical Transcription	3
MAT 170	Administrative Medical Assisting	4
MAT 201	Clinical Techniques I	4
MAT 202	Clinical Techniques II	4
MAT 203	Clinical Techniques III	4
MAT 210	Law Ethics for Medical Assisting	2
MAT 230	Insurance Billing/Coding	4
MAT 250	Computerized Office Procedures	4
MAT 290	Special Topics	2
MAT 295	Externship	3

### Related Basic Requirements: 12 hours

ATCH 103	Financial Acct. Procedures	4
CTCH 125	Intro to Computers	4
OTEC 122*	Keyboarding II	4

\*This course has a prerequisite of OTEC 121 Keyboarding I. Students are expected to have had Intro to Keyboarding. If they are not level II, they will need to take OTEC 121 or establish course credit by examination.

### General Requirements: 48 hours

BIOS 103	Human Biology	5
BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
ENG 151	Freshman Composition	5
HCFN 128	Intro to Nutrition	4
HLTH 202	Health Science and Lifestyle Choices	4
HLTH 217	Intro to Hlth. Care Orgs.	4
COMS 103	Fund. of Public Speaking	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PSY 101	General Psychology	5

### Electives: 5-9 hours

MAT 291	Independent Study	1-5
OTEC 123	Keyboarding III	4

**Minimum required for graduation: 99**

## Nursing (A.A.S.)

### Major code SA2341

Ohio University–Zanesville, Ohio University–Chillicothe, and Ohio University–Southern offer a two-year nursing program. Upon completing the program, you receive an Associate in Applied Science in nursing and are eligible to take the National Council Licensure Examination for Registered Nurse. The program is accredited by the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006; telephone 800-669-1656 ext. 153. All nursing courses (NURS) must be completed with a grade of C or better.

To apply, you must be a high school graduate or hold a certificate of high school equivalency (GED). A high school g.p.a. of 3.0 on a 4.0 scale or established college g.p.a. is expected. To be reviewed by the selection committee, you must have completed courses in biology, algebra, and chemistry at the high school or college level with a grade of C or better in each course. All students are required to take the ACT COMPASS examination before admission to the nursing program. "Scores" of Tier I Quantitative, English 151, and reading level of at least 80 are expected. The ACT COMPASS examination is administered on all campuses.

### Technical Requirements: 64 hours

NURS 110	Foundations of Nursing I	4
NURS 111	Foundations of Nursing II	4
NURS 115	Commun. in Nursing	1
NURS 120	Assessment of the Middle and Older Adult	2
NURS 121	Assessment of the Neonate Through Young Adult	2
NURS 130	Pharmacology in Nurs. I	1
NURS 131	Pharmacology in Nurs. II	2
NURS 132	Pharmacology in Nurs. III	2
NURS 210	Health Alterations I	7
NURS 211	Health Alterations II	7
NURS 212	Health Alterations III	7
NURS 220	Maternal, Newborn, and Women's Hlth. Alterations	5
NURS 230	Mental Health Alterations	5
NURS 240	Child and Adolescent Health Alterations	5
NURS 260	Transition to Nursing Practice	10

### General Requirements: 44 hours

BIOS 130	Prin. of Human Anatomy and Physiology I	5
BIOS 131	Prin. of Human Anatomy and Physiology II	5
CHEM 121	Prin. of Chemistry I	4
ENG 151	Freshman Composition*	5
HCFN 128	Intro to Nutrition	4
BIOS 201	Elementary Microbiology	4
PSY 101	General Psychology	5
PSY 120	Elem. Statistical Reasoning	4
SOC 101	Intro to Sociology	5
	Elective**	3

### Minimum required for graduation: 108

The sequence of the first-year support courses may not be altered; second-year support course sequence may be altered with permission. A curriculum sheet with the actual sequencing outline can be obtained from the Associate's Degree Nursing Office.

\*Taken prior to completion of the nursing program.

\*\*Recommended: Fine Arts, Humanities, CS 120, PSY 273.



## Office Technology (A.A.B.)

### Major code AA5014

Ohio University–Chillicothe and Ohio University–Southern offer a two-year program of study leading to an Associate in Applied Business degree in office technology. This program provides knowledge in many phases of business and incorporates the development of supervisory skills. For additional information, contact the office technology program director at your campus.

#### Technical Requirements: 49–60 hours

OTEC 248	Admin. of Record Systems	3
OTEC 121	Keyboarding I	4
OTEC 122	Keyboarding II	4
OTEC 130	Business Communication I	4
OTEC 171	Administrative Procedures I	4
OTEC 172	Administrative Procedures II	4
OTEC 200	Desktop Publishing I	3
OTEC 221	Dictation/Transcription	4
OTEC 225	Commun. Processing I	4
OTEC 226	Commun. Processing II	4
OTEC 227	Commun. Processing III	4
OTEC 230	Business Communication II	4
MATH 109	Consumer Mathematics	4
OTEC 290	Seminar	1–4
OTEC 299 or OTEC 201	Internship Desktop Publishing II	1–4 •

#### Business Core Requirements: 26–28 hours

ATCH 103	Financial Acct. Procedures I	4
ATCH 104	Financial Acct. Procedures II	4
OTEC 258	Stress Management for Office Personnel	3
BMT 150 or OTEC 267	Elements of Supervision Office Supervision	4 4
BUSL 255	Law and Society	4
OTEC 268	Information System Design	3
COMS 101 or COMS 103	Fund. of Human Comm. Fund. of Public Speaking	4 4

#### General Education Requirements: 14–15 hours

Tier I	English Composition	5
Tier I	Quantitative Skills (Note: MATH 109 satisfies this requirement.)	4–5
Tier II	Social Sciences	5

Minimum required for graduation: 96

## Travel and Tourism (A.A.S.)

### Major code AA5016

Ohio University–Southern offers a two-year program leading to the Associate in Applied Science in travel and tourism. Upon completion of the program, you may seek employment as a travel professional in travel agencies, tourist organizations, and other travel-related businesses. For additional information on employment opportunities, contact the director of travel and tourism.

#### Technical Requirements: 34 hours

TAT 150	Travel Career Dev. Part I	3
TAT 151	Travel Career Dev. Part II	3
TAT 160	Destination Training—North America	3
TAT 161	Destination Training—Ohio	3
TAT 162	Destination Training—Western Europe	3
TAT 163	Destination Training—Asia	3
TAT 164	Destination Training— Mexico, Caribbean	3
TAT 250	Trav. Rules and Regulations	4
TAT 270	Travel Comp. Program Train.	3
TAT 280	Seminar—Travel Planning and Counseling	1
TAT 281	Practicum—Travel Planning and Counseling	2
TAT 282	Seminar—Tour Planning and Direction	1
TAT 283	Practicum—Tour Planning and Direction	2

#### Business Core Requirements: 31 hours

ACCT 101 or ATCH 103	Financial Accounting Financial Acct. Procedures	4
ACCT 102 or ATCH 104	Managerial Accounting Financial Acct. Procedures	4
CS 120 or BMT 200	Computer Literacy Intro to Business Computing	4
ECON 103	Prin. of Microeconomics	4
COMS 103	Fund. of Public Speaking	4
JOUR 250	Advertising Principles	4
JOUR 270	Intro to Public Relations	3
MGT 200	Intro to Management	4

#### General Requirements: 32 hours

ENG 151	Freshman Composition	5
GEOG 121	Human Geography	4
MATH 109	Consumer Mathematics	4
PESS 227	First Aid	3
PESS 228	CPR	1
SPAN 111, 112, 113 or	Elementary Spanish other modern foreign language	12
	Elective	3

Minimum required for graduation: 96

# Courses of Instruction

## Catalog Numbers

The catalog number indicates the student classification for which the course is primarily intended:

001–099	Noncredit courses
100–299	Undergraduate general program
300–499	Undergraduate advanced or specialized program

Within the College of Arts and Sciences, the alphabetical catalog-number suffixes -I and -O generally are not used. Other alphabetical suffixes have specific meanings: -H, departmental honors courses; -J, junior-level composition courses; -T, honors tutorial courses; -X, study abroad courses.

## Credit

Credit for a course is indicated by the number or numbers in parentheses following the course title. It may be expressed (3), (1–3), or (2 or 3).

A course with one quarter hour of credit (1) is the equivalent of one recitation or two or more laboratory periods per week throughout a quarter.

In a course carrying variable credit, the credit may be expressed (1–4, max 8), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one quarter. However, you may enroll in the course any number of times and for any number of credit hours within the quarter limit, provided the total registration for the course does not exceed the overall maximum.

Courses that satisfy one of the University General Education Tier I or Tier II requirements are indicated by a notation on the title line. Tier I courses are marked either (1E) for English composition or (1M) for quantitative skills; Tier II designations are (2A) applied sciences and technology, (2C) cross-cultural perspectives, (2H) humanities and fine arts, (2N) natural sciences and mathematics, and (2S) social sciences.

Courses that satisfy General Education Tier III requirements are grouped under the heading Tier III.

## Prerequisites

Course prerequisites are indicated at the beginning of the course description, following the abbreviation "Prereq." If you have any doubts about whether you have fulfilled prerequisites due to changes in the numbering system over the past several years, check the course titles and consult with your advisor and the office of the dean. Even if you have not met the prerequisites, you may add a course by obtaining the instructor's permission. Once you have completed an advanced course, you may not subsequently enroll in a prerequisite course for credit.

## Instructors

Unless otherwise indicated in italics following the quarter specification in the courses description, the course may be taught by any member of the staff of the department.

## Fees

When a course requires a private instructional fee, the amount is stated in the course description.

## Rank

The minimum student rank or standing, when applicable, is indicated by the following abbreviations:

Freshman: fr

Sophomore: soph

Junior: jr

Senior: sr

Unless the prerequisite states that the course is not open to students above the stated rank (e.g., "fr only"), you can enroll if you are at or above that rank.

## Lecture and Laboratory Hours

Lecture, laboratory, and recitation hours are respectively abbreviated "lec," "lab," and "rec."

## Schedule

A *Schedule of Classes* is available each quarter from the Registrar's Office. Some courses may not be offered during the quarter which you intend to take them. Students should contact the department offering the course for more specific scheduling information.

## Areas of Study

The following areas of study are included in this section. The course prefix follows each area.

Accounting (ACCT)	Environmental and Plant Biology (PBIO)	Physics and Astronomy
Accounting Technology (ATCH)	Environmental Engineering Technology (EVT)	Astronomy (ASTR)
Aerospace Studies (AST)	Equine Studies (EQU)	Physical Science (PSC)
African American Studies (AAS)	Film (FILM)	Physics (PHYS)
Anthropology (ANTH)	Finance (FIN)	Political Communication (POCO)
Art (ART)	Foreign Languages and Literatures	Political Science (POLS)
Foundation Courses	Chinese (CHIN)	Professional Communication (PRCM)
Art Education	French (FR)	Psychology (PSY)
Ceramics	German (GER)	Quantitative Business Analysis (QBA)
Graphic Design	Greek (GK)	Real Estate Technology (REAL)
Painting	Indonesian/Malaysian (INDO)	Recreation and Sport Sciences
Photography	International Literature in English:	Athletic Training (RSAT)
Printmaking	Linguistics (ILL)	Physical Education Activity (PED)
Sculpture	International Literature in English: Modern	Physical Education and Sport Sciences (PESS)
General Courses	Languages (ILML)	Recreation Studies (REC)
Additional Art Courses	Italian (ITAL)	Security/Safety Technology (SST)
Regional Campus Offerings	Japanese (JAPN)	Social Work (SW)
Art History (AH)	Latin (LAT)	Sociology (SOC)
Aviation (AVN)	Modern Languages (ML)	Telecommunications (TCOM)
Biological Sciences	Russian (RUS)	Theater (THAR)
Biological Sciences (BIOS)	Spanish (SPAN)	Tier III (T3)
Biology (BIOL)	Swahili (SWAH)	Travel and Tourism (TAT)
Business Administration (BA)	Geography (GEOG)	University College (UC)
Business Law (BUSL)	Geological Sciences (GEOL)	University Professor (UP)
Business Management Technology (BMT)	Global Learning Community (GLC)	Visual Communication (VICO)
Chemistry (CHEM)	Hazardous Materials Technology (HMT)	Women's Studies (WS)
Classical Archaeology (CLAR)	Health and Human Services (HS)	
Classics and World Religions (CLWR)	Health Sciences Environmental Health (EH)	
Classics in English (CLAS)	Health Sciences (HLTH)	
Communication Studies (COMS)	Industrial Hygiene (IH)	
Communication Systems Management (COMT)	Hearing and Speech Sciences (HSS)	
Comparative Arts (CA)	History (HIST)	
Computer Science (CS)	Human and Consumer Sciences	
Computer Science Technology (CTCH)	Child and Family Studies (HCCF)	
Dance (DANC)	Food and Nutrition (HCFN)	
Deaf Studies and Interpreting (DSI)	General Education (HCGE)	
Design Technology (DTCH)	Interior Design (HCID)	
Economics (ECON)	Retail Merchandising (HCRM)	
Education	Human Resource Management (HRM)	
Counselor Education (EDCE)	Human Services Technology (HST)	
Curriculum and Instruction (EDCI)	Industrial Maintenance Technology (IMT)	
Cultural Studies (EDCS)	Industrial Technology (IT)	
Computer Technology (EDCT)	International Studies (INST)	
Early Childhood Education (EDEC)	Journalism (JOUR)	
Educational Administration (EDAD)	Law Enforcement Technology (LET)	
International and Comparative	Linguistics (LING)	
Education (EDIC)	Management (MGT)	
Middle Childhood Education (EDMC)	Management Information Systems (MIS)	
Professional Laboratory Experience (EDPL)	Marketing (MKT)	
Secondary Education (EDSE)	Materials Management Technology (MMT)	
Special Education (EDSP)	Mathematics (MATH)	
Electronic Media (EMA)	Medical Assisting Technology (MAT)	
Electronics Technology (ETCH)	Military Science (MSC)	
Engineering Chemical (CHE)	Music (MUS)	
Engineering Civil (CE)	Applied Music	
Engineering Electrical (EE)	Music Education	
Engineering Industrial and	Music History and Literature	
Systems (ISE)	Independent Studies in Music	
Engineering Mechanical (ME)	Music Theory and Composition	
Engineering and Technology (ET)	Music Therapy	
English	Nursing Associate's Degree Program (NURS)	
English (ENG)	Baccalaureate Program for RNs (NRSE)	
Humanities (HUMA)	Office Technology (OTEC)	
	Ohio Program of Intensive English (OPIE)	
	Operations (OPH)	
	Philosophy (PHIL)	
	Physical Therapy (PT)	

## Accounting (ACCT)

### 101 Financial Accounting (4)

Prereq: Tier I math or higher placement. (fall, winter, spring, summer) Introduction to the accounting process and external financial reporting. Introduction to compound interest concepts.

### 102 Managerial Accounting (4)

Prereq: 101, ECON 103. (fall, winter, spring, summer) Uses of accounting information for making managerial decisions. Study of cost behavior, overhead costs allocation, basic cost accumulation systems, elementary capital budgeting, master and flexible budgets, and cost control.

### 298 Internship (1)

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

### 303 Intermediate Accounting I (4)

Prereq: 102. (fall) In-depth study of conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for cash, receivables, inventories, and associated revenues and expenses, including application of compound interest techniques. Required for accounting major.

### 304 Intermediate Accounting II (4)

Prereq: 303, and perm. (winter) Measurement and reporting standards for tangible and intangible operating assets, investments, liabilities, contingencies, stockholders' equity, and special problems of revenue recognition. Required for accounting major.

### 305 Intermediate Accounting III (4)

Prereq: 304. (spring) Measurement and reporting standards for pensions, capital leases, interperiod tax allocation, dilutive securities and earnings per share; accounting changes and error correction; statement of cash flows; financial statement analysis; special disclosure standards; financial reporting and changing prices. Required for accounting major.

### 310 Cost Accounting (4)

Prereq: 102. Emphasis on manufacturing and service organizations. Topics include process costing, activity-based costing/ activity-based management, analysis of cost variances, and complex capital budgeting issues. Required for accounting major.

### 311 Industrial Accounting (4)

Prereq: 101, 102, jr. Primarily for nonaccounting majors. Explains how accounting data can be interpreted and applied by management in planning and controlling business activities. Shows how accounting data can help solve problems confronting management. Attention also given to use of accounting data by investors, potential investors, and lenders. Concentration on use of data rather than collection and presentation.

### 312 Accounting for Health Care Organizations (4)

Prereq: 101, 102, jr. Introduces student to use of accounting data in planning and controlling health care organizations. Basic cost accounting theory and applications stressed as aids to fee setting, budgeting, asset acquisition functions.

### 317 Federal Income Taxes (4)

An overview of the impact of federal income taxes on conducting business. Required for accounting major.

### 340 Advanced Cost Accounting (4)

Prereq: 310, jr. Current cost accounting topics. May include case studies, ABC costing and asset variation, and role playing.

### 345 Accounting Systems and Internal Control (4)

Prereq: 303 or perm. Computer technology as it relates to design, implementation, and operation

of accounting information systems. A major portion of the course devoted to internal control procedures. Required for accounting major.

### 347 Tax Research (4)

Prereq: 317, jr. Advanced tax problems of individuals, partnerships, and corporations with emphasis on tax research and research methodology.

### 398 Internship (1-4)

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experiences following the sophomore year.

### 406 Advanced Accounting (4)

Prereq: 305. Business mergers, consolidated financial statements, partnerships, international operations, corporate bankruptcy, and branch office accounting.

### 407 Seminar in Current Topics (4)

Prereq: 305. Research in current accounting issues, including written and oral reports of findings.

### 413 Governmental and Nonprofit Theory and Practice (4)

Prereq: ACCT major, 303 or perm. Accounting theory for governmental and nonprofit organizations: financial reporting; fund accounting; budgeting and control.

### 451 Auditing Principles (4)

Prereq: 305 or perm. (fall) Basic concepts and applications in external, internal, and governmental auditing. Includes an introduction to current audit technology. Required for accounting major.

### 452 Advanced Auditing (4)

Prereq: 451. Auditing theory and practice with emphasis on current issues, professional standards, ethics, legal liability, special reports, special industries, and advanced auditing techniques.

### 457 Advanced Tax (4)

Prereq: 317 or perm. Tax aspects of corporate organizations; distributions; reorganizations and liquidations; partnerships; Sub S corporation; estates and trusts.

### 491 Seminar (3, 4, or 5)

Prereq: perm. Selected topics of current interest in accounting area.

### 497 Independent Research (1-15)

Prereq: perm. Research in selected fields of accounting under direction of faculty member.

### 498 Internship (1-4)

Prereq: perm. (fall, winter, spring, summer).

## Accounting Technology (ATCH)

The following courses for the A.A.B. in accounting technology are available on the Lancaster and Southern campuses.

### 103 Financial Accounting Procedures (4)

(fall) Fundamental accounting principles for service businesses and merchandising enterprises; debits, credits, and double entry; journalizing and posting; accounting systems and special journals; accounting for purchases and sales, cash, receivables, interest, revenue, and expense; financial statement preparation, including adjusting and closing procedures.

### 104 Financial Accounting Procedures (4)

Prereq: 103. (winter) Accounting procedures for inventory, current liabilities, financial statement analysis, and annual reports; managerial accounting concepts and principles; job order cost systems.

### 105 Financial Accounting Procedures (4)

Prereq: 104. (spring) Long-term investments; plant assets; intangible assets; long-term liabilities; accounting procedures for owners'

equity in single proprietorship, partnership, and corporation; statement of cash flow.

### 203 Tax and Governmental Reporting Procedures (4)

Prereq: 104. (spring) Consideration of data sources, forms, and filing requirements for payroll taxes, income taxes, withholding taxes, FICA, sales taxes, unemployment reports, and wide variety of other specialized local, state, and federally required reports and procedures.

### 204 Electronic Data Processing Accounting Procedures (4)

Prereq: 105, CTCH 125 or equiv, and MATH 113. (fall) Use of computers to perform both specialized and routine accounting functions formerly done by hand. An integrated general ledger program and an electronic spreadsheet program are used.

### 205 Manufacturing Accounting I (4)

Prereq: 105, MATH 113. (winter) Study of cost behavior; data collection procedures and reports for manufacturing firms, job order costs; process costs; standard costs; overhead allocation methods.

### 206 Manufacturing Accounting II (4)

Prereq: 205. (spring) Continuation of 205.

### 209 Business Statistics (4)

(winter) Basic statistics, demonstrated and developed through problems typical of actual business situations. Procedures and applications of statistical analysis and inference as they relate to business activity.

### 225 Federal Income Tax Procedures (4)

Prereq: for credit, 203; for noncredit, perm. (fall) Comprehensive course in fundamentals of federal income taxation and preparation of individual, partnership, and corporation tax returns.

### 233 Accounting Information Systems (4)

Prereq: ATCH 105 or ACCT 102. Fundamental accounting principles and practices using data accumulation and working paper techniques employed by professional accountants in reporting on merchandising, manufacturing, and service companies. Application of generally accepted accounting principles to preparation of general purpose financial statements for internal and external use. Accounting software will be emphasized.

### 241 Auditing Procedures (4)

Prereq: 203. (spring) Study of purposes and scope of audits including audit objectives, professional ethics, audit files and working papers, legal responsibilities, internal control, tests of transactions, audit procedures and disclosure requirements, and preparation of audit reports.

### 299 Independent Study (1-5, max 10)

Prereq: perm. Supervised independent study projects in accounting technology.

## Aerospace Studies (AST)

### Air Force ROTC

The Department of Aerospace Studies offers three programs, all of which lead to a commission as a second lieutenant in the United States Air Force.\*

The four-year program is designed for students who can begin Air Force ROTC with the fall of their freshman year and complete aerospace studies requirements by their date of graduation. Students taking the four-year program begin by enrolling in AST 101 and 101L. Students starting Air Force ROTC in a quarter other than the fall of their freshman year can make arrangements to complete the program.

The two-year program is designed for students unable to take Air Force ROTC during their first two years of college. It is similar to the last two years of the four-year program.

Consult the chair of the Department of Aerospace Studies for instructions regarding application for this program.

The one-year program is limited to specialized majors. Consult the chair of the Department of Aerospace Studies for further information.

Entry into the Professional Officer Course (AST 300 and 400 series) is based upon a best-qualified selection process. Completion of the General Military Course (AST 100 and 200 series) does not guarantee entry into the Professional Officer Course (POC), but makes you eligible to compete for acceptance into the POC. Upon graduation and commissioning, you are normally required to serve four years active duty as an officer with the United States Air Force. For further information contact the chair of the Department of Aerospace Studies, Lindley Hall 232.

**101 Introduction to the U.S. Air Force (1)**  
(winter) Role of officer and subordinate, communication, and general organization of the United States Air Force.

**101L Leadership Laboratory (1)**  
Prereq: Concurrent with 101. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**102 Air Force Missions (1)**  
(fall) The mission of major Air Force command organizations, base services, professions, and an introduction to flight.

**102L Leadership Laboratory (1)**  
Prereq: Concurrent with 102. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**103 Defense Policy and Forces (1)**  
(spring) Defense policy, general purpose, and Air Reserve Forces with emphasis on the role of the officer in this arena.

**103L Leadership Laboratory (1)**  
Prereq: Concurrent with 103. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**201 History of Air Power (1)**  
(fall) History and development of air power in the U.S.

**201L Leadership Laboratory (1)**  
Prereq: Concurrent with 201. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**202 Air Power Today (1)**  
(winter) Covers Air Force concepts, doctrine, and employment. how technology has affected growth and development of air power.

**202L Leadership Laboratory (1)**  
Prereq: Concurrent with 202. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**203 Uses of Air Power (1)**  
(spring) Changing mission of defense establishment. how air power is employed in military, nonmilitary, and strategic operations.

**203L Leadership Laboratory (1)**  
Prereq: Concurrent with 203. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**204 Field Training (3)**  
(summer) Field training experience at various U.S. locations for military training and indoctrination through practical application of common military customs and courtesies.

**301 Management-Concepts and Practices I (3)**  
(fall) Military professionalism and leadership theory; strengths and weaknesses of various leadership styles; review of responsibilities, authority, and functions of Air Force officers. Development of communication and leadership skills.

**301L Leadership Laboratory (1)**  
Prereq: Concurrent with 301. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**302 Military Professionalism and Leadership Theory (3)**  
Prereq: 301 or perm. (winter) Review of selected concepts, principles, and theories of management as applied in the Air Force. Continued development of communication and leadership skills.

**302L Leadership Laboratory (1)**  
Prereq: Concurrent with 302. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**303 Management-Concepts and Practices II (3)**  
Prereq: 302 or perm. (spring) Development of communication skills in the Air Force style and format. Emphasis on basic writing and briefing techniques; counseling fundamentals of the Air Force officer and the officer promotion system are also reviewed.

**303L Leadership Laboratory (1)**  
Prereq: Concurrent with 303. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**304 Advanced Field Training (1)**  
(summer) A variety of professional development training programs designed for students to experience active duty opportunities.

**401 The Military and the American Society (3)**  
Prereq: 303 or perm. (fall) Study of the military and the professional soldier in democratic society and the military as socializing institution. Communicative skills via student oral presentations and written reports emphasized.

**401L Leadership Laboratory (1)**  
Prereq: Concurrent with 401. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**402 Strategy and the Use of Force (3)**  
Prereq: 401 or perm. (winter) Evaluation of strategy and study of arms control, general and limited war. Continues communicative skills via student presentations and written reports. Emphasizes qualities and techniques of leadership.

**402L Leadership Laboratory (1)**  
Prereq: Concurrent with 402. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

**403 American Defense Policymaking (3)**  
Prereq: 402 or perm. (spring) Organization and case studies in defense policymaking and bureaucratic decision making and preparation for active duty. Continues communicative skills and techniques of leadership. Examines military law and topics preparing officer candidates for active duty.

**403L Leadership Laboratory (1)**  
Prereq: Concurrent with 403. Provides a progression of experience to aid each individual's understanding of the Air Force and to develop teamwork, followership, and leadership skills.

## African Studies

See International Studies.

## African American Studies (AAS)

**101 African American History I, 1526-1865 (4) (2S)**  
Survey of key economic, political, ideological, and social elements that shaped destinies of black people in the United States from 1526 to 1865.

**106 Introduction to African American Studies (4)**  
Interdisciplinary course designed to introduce students to field of African American studies. Focuses upon subject matter, scope, assumptions, and methods of various academic disciplines that are constituent parts of African American Studies Program, and seeks to show how these disciplines collectively contribute to broadest understanding of African American experience and, thus, of the general American experience from a black perspective.

**110 Introduction to African American Literature (4) (2H)**  
Provides general introduction to and overview of canon of African American literature. By examining a variety of texts, genres, themes, and issues in literature by black Americans, this course seeks to establish foundations and achievements of African American literary tradition.

**135 History of Colonialism (4)**  
Historical-social analysis of development of colonialism in Africa, how colonialism led to underdevelopment of Africa, and review of ideological justification of this phenomenon. Special focus placed on development of colonialism in 19th and 20th centuries up to Year of Africa (1960). Specific attention given to ideological contribution of Frantz Fanon to colonial situation. Combination of books in fields of history, psychology, economics, and literature so student will obtain integral picture of colonial period.

**150 Introduction to Black Media (5) (2H)**  
Historical analysis of images of blacks in cinema, radio, and television programming; origin and development of stereotypes; relationship of these images to societal developments; examination of alternatives.

**180 Introduction to African American Education (4)**  
Explores historical and philosophical foundations, development of education for African Americans, and formulations of dual educational system. Makes comparisons and contrasts among various philosophical views which have shaped formation of American educational institutions, theories, and practices.

**202 African American History II, 1865 to Present (4) (2S)**  
Survey of key economic, political, ideological, and social elements that have shaped destinies of black people in the United States from 1865 to present.

**210 African American Literature I (4) (2H)**  
First of 2-qr survey of African American literature. Covers period from about 1760 to end of Harlem Renaissance. Focuses on such writers as Phillis Wheatley, Frederick Douglass, Charles W. Chesnutt, Paul Laurence Dunbar, James Weldon Johnson, and writers of Harlem Renaissance—Claude McKay, Jean Toomer, Langston Hughes, Countee Cullen, Zora Neale Hurston. Folk literature and other materials important to an understanding of African American literary tradition will be included.

**211 African American Literature II (4) (2H)**

Begins where 210 ends. (However, 210 not a prereq.) Treats African American literary expression from around 1940 to present. Writers included are Richard Wright, Margaret Walker, Gwendolyn Brooks, Ralph Ellison, James Baldwin, Amiri Baraka, Ishmael Reed, and others who have contributed to African American literary tradition.

**220 Theories of African American Social Development (4)**

Exploration of theories or political policies and economic processes, their interrelations, and their influence on socioeconomic character of black community.

**225 History of the Black Worker (4)**

Analysis of historical role of black labor force in American economy, with emphasis on patterns of relationships between black workers and general organization of American labor movement.

**235 Comparative Neo-Colonialism (4)**

Attention paid to historical-social analysis of neo-colonialism—how new methods and maneuvers used to exploit labor and resources in 20th century. Focus on Africa, although students' areas of interest will also be accommodated.

**250 Foundations of African American Arts and Culture (4) (2H)**

Provides introductory examination of African American experience through concern with sociocultural approaches to modes of thought, cultural institutions, historical experiences, lifestyles, and artistic expression. As cultural history, designed to provide understanding of foundations, sources, and history of ideas of African American experience. Considers influence of traditional African arts and culture on development of cultural traditions in Americas, early African American arts and crafts, and development of the African American culture tradition from slavery to present.

**254 History of Injustice in the United States (5)**

Critical analysis of problems in the U.S. Special attention given to (1) education, (2) voting, (3) social services, (4) fair housing, and (5) legal system.

**310 Contemporary African American Literature (4)**

Focuses on African American literature of the 1960s and since. Concerns writers who emerged as major figures during this period. Attention also given to major literary, cultural, and aesthetic developments that fashioned new favorability among black writers.

**311 African American Literature: Special Topics (4)**

Prereq: soph. Intensive study of selected theme or topic. Course will vary from qtr to qtr; thus students should check departmental brochure to ascertain topic any given qtr.

**315 Literature of West Africa (4)**

Prereq: jr or sr. Intensive examination of representative works, authors, and movements. Using cultural and sociopolitical perspectives, course seeks to define style, structure, and mode and to indicate how these interrelate, help to determine meaning, form, etc. Authors like Achebe, Armah, Senghor, Soyinka, Laye and Oyono, Mongo Beti and Kofi, Awoonor, and Ama Ata Aidoo considered, to analyze, e.g., Negritude, phases in West African writing during last 30 yrs. Essays and critical literature given some attention.

**316 Literature of South Africa (4)**

Explores development of South African literature since 1940s and, while confining itself to writings of black writers of all complexions, examines how this literature reflects conditions of life of the majority of South African population. Course entails vast landscape of structured background reading on history, politics, economics, and demography of South Africa and on aesthetics of particular cultures.

**317 Caribbean Literature: Major Authors and Movements (4)**

Survey of literature in English and translations written by Caribbean authors. Major themes and literary movements of Caribbean discussed: Negritude, Negritismo, ancestral imperative, search for identity, reordering of group images. Transcultural and syncretic elements discussed. Outside readings essential for class contributions.

**340 The Black Community in Post-World War II (4)**

Survey of black community's development during 20th century and its relation to development of larger American society over same period. Focus on post-WW II community processes.

**341 African American Personality (4)**

Examination of organization and structure of African American personality within American and African sociopsychological contexts. Special emphasis on various forces which shape African American personality.

**345 The Black Woman (4)**

Prereq: soph and perm. Roles of black women in education, social development, and stabilization of their families. Impact of history of oppression and struggle on social psychology of black women.

**350 African American Arts and Artists (4) (2H)**

Intensive study of African American artists, aesthetic principles, and African American arts movements from the late 19th century to present. Development of black professional artists, artists of Harlem Renaissance, black cultural nationalist art, modernism and African American artists, social protest, and street murals among topics covered.

**352 Blacks in Contemporary American Cinema (4) (2H)**

Prereq: 150. This course explores the representation of African Americans in contemporary American cinema since the 1970s. It also examines the contributions of African Americans on both sides of the camera, as well as various themes conveyed in the films of the period.

**353 Survey of Black Independent Cinema (4)**

Prereq: 150. Examines the history and current status of independent black filmmaking. Independents have often served as a counter to Hollywood's limited portrayal of African Americans. The impact, relevance, and aesthetics of films from the black voice will be studied.

**355 History of African American Music I, Slavery-1926 (4)**

Sociohistorical examination of African American music and its role in shaping American music. Recordings and guest lectures used as integral part of course. Examines spirituals, rural blues, ragtime, and early jazz.

**356 History of African American Music II, 1926-Present (4)**

Socio-historical analysis of African American music and its role in shaping modern American music. Recordings and guest musician/lecturers used as integral part of course. Examines big band era, urban blues, bebop, rhythm and blues, hard bop, black classical composers, contemporary popular, and avant-garde musics.

**360 Black Politics in the United States (4)**

Examines American political system from perspective of black political behavior and relationship of blacks to political system at national, state, and local levels. Includes analysis of civil rights movement as well as sociopolitical movements associated with ideologies of black nationalism and black liberation.

**364 Comparative Study of Injustice (4)**

Comparative analysis of different approaches to civil and human rights in selected developed and developing countries. Review of theory of justice and political consequences in chosen countries.

**368 Black Political Thought (4)**

Analysis of basic tenets of black thought in U.S. Emphasis on theoretical dimensions of post-Civil War black social and political thinkers.

**370 Urban Violence (4)**

Systematically examines empirical and theoretical literature on urban violence, particularly riots during 1960s.

**380 Seminar in African American Education (4)**

Prereq: 8 hrs of education or social sciences. An examination of critical issues in contemporary society that affect the education of African Americans. Topics to be explored include status and preparation of teachers, curriculum development, educating black children for the 21st century, multicultural education, impact of computer technology and scientific developments as they affect African American students, teachers, and parents.

**381 Special Topics in African American Studies (4)**

Special topics of interest to small groups of students will be selected and studied in depth, such as African American cultural expressions and strategic social change.

**411 Literature Seminar (4)**

Subject varies. May be repeated as subject changes.

**430 Social Theories of Underdevelopment (4)**

Systematic review of problems of social change in developing areas from multidisciplinary point of view. Due attention given to problems of agrarian reform, urbanization as social process, regional disparities within framework of single nation/state inter alia. Comparative analysis of problems of social development undertaken typologically.

**432 Third World National Movements (4)**

Comparative study of varieties of national oppression. Question of ethnonationalism, clerical nationalism, and other forms of response to oppression reviewed. Due attention given to various notions of Pan-Africanism and Black Nationalism in U.S., Africa, and Latin America.

**440 The Black Child (5)**

Entails in-depth analysis of black child, impact and effects of growing up black in America. Specifically, seeks to determine effects and role of family, school, neighborhood, economic status, and society at large on sociological and psychological development of black child.

**460 Social Processes: Third World Urbanization (4)**

Deals with laws of development of urbanization as it relates to anatomy of civil society. Special focus on how current urban crisis related to structural, cyclical, and general crisis of modern society. Political economy of urban ghetto both in U.S. and Third World singled out for special inquiry. New thought given to suburbanization process so-called "Post City Phenomenon," etc. Due focus on connection between urban crisis, racial problems, and possibility of American apartheid. Urbanization as social process in Africa, Asia, and Latin America studied comparatively.

**482 The Black Family (4)**

Black family in America and its important role in development of ethnic differences, strengths, and strategies.

**490 Independent Study (1-5)**

Prereq: perm. Primarily for students interested in concentrated study in specific area in cooperation with advisor.

**Anthropology (ANTH)****101 Introduction to Cultural Anthropology (5) (2C)**

Basic concepts; introduction to various world cultures; nature of cultural diversity; evolution of sociocultural systems. Qualifies as Tier II Third World Cultures course.

**201 Introduction to Biological Anthropology (5) (2N)**

Evolutionary theory; primates; fossil record of human evolution; mechanics of evolution; human variation.

**202 Introduction to World Archaeology (5) (2C)**

Basic concepts; how archaeologists reconstruct extinct societies and explore cultural evolution.

**301 Anthropology and Film (5)**

Prereq: 101. The use of film as a medium for recording cultural information; as a technique for observation, analysis, and interpretation of cultural information; and as a means for presenting information about cultures, human adaptation, human evolution, and anthropological research itself.

**345 Gender in Cross-Cultural Perspective (4)**

Prereq: 101 and soph. Considers the range of cultural diversity in defining gender roles; comparative approach towards understanding the behaviors and perceptions associated with gender.

**346 Introduction to Human Osteology (4)**

Prereq: 201 or LET 140 or BIOS 171. This course focuses on the identification, study and analysis of the human skeleton. Students will learn the micro-anatomy and macro-anatomy of human bone and how skeletal remains are analyzed.

**348 Education: Cross-Cultural Perspectives (4)**

Prereq: 101. Survey of cross-cultural education systems.

**349 Life History: The Individual and Culture (4)**

Prereq: 101. Survey of ways of growing up in various cultures, emphasizing the relationship between the individual and culture.

**350 Economic Anthropology (4)**

Prereq: 101. Survey of economic arrangements found in various types of cultural systems; economic exchange systems in non-Western cultures; anthropological analysis of economic life.

**351 Political Anthropology (4)**

Prereq: 101. Anthropological exploration of various political systems around world; cross-cultural examination of political leadership, political power, conflict, etc. Emphasis on non-Western, non-industrialized cultures.

**355 Medical Anthropology (4)**

Prereq: 201. Non-Western medical systems and theories of health and disease causation; social basis for diagnosis and cure; curing rituals; symbolism of health and illness. Ecological factors in health and nonhealth; systemic connections between health concepts, culture, and environmental situation.

**356J Writing in Sociology and Anthropology (4) (1J)**

Prereq: jr or 13 hrs sociology and/or anthropology. Jr-level composition course for sociology and anthropology majors and students in related fields. Combines writing instruction with consideration of substantive social science topic. Students will try various genres of social science writing (book reviews, grant proposals, field notes, interviews, etc.)

**357 Anthropology of Religion (4)**

Prereq: 101. Anthropological consideration of ritual and myth in various cultures, shamanism, trance, taboo, etc., in social systemic, symbolic, structuralist, and ecological perspective. Comparison of different anthropological frameworks for understanding religious phenomena in an objective, social scientific way.

**361 North American Prehistory (4)**

Prereq: 202. Analysis and interpretation of the cultural evolution of indigenous North American Indian cultures. Emphasis placed on those cultures from Ohio and the Midwest.

**363 Gender in Prehistory (4)**

Prereq: 101, 202, and soph. Examines the application of gender studies as an analytic tool for archaeological reconstructions. Considers evolving gender roles within a wide range of past cultural settings.

**364 Near East Prehistory (4)**

Prereq: 202. Scrutiny of the archaeological data and consequent reconstruction of the evolutionary process affecting cultures in the Near East. Analysis begins with the earliest occupation of the region and ends with the establishment of various state systems.

**366 Cultures of the Americas (4)**

Prereq: 101, 202. Survey of past and/or present cultural diversity present in North, South, or MesoAmerica or the Caribbean with emphasis on application of anthropological method and theory to understanding of particular sociocultural systems. Emphasis varies by instructor.

**367 South American Prehistory (4)**

Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution as expressed by the ancient societies of South America.

**370 Mexican/Central American Prehistory (4)**

Prereq: 202. Reconstruction, analysis, and interpretation of the process of cultural evolution in pre-Hispanic Mexico and Central America. No credit if 368 taken.

**371 Ethnology (4)**

Prereq: 101. In-depth consideration of topics covered in 101; anthropological theory and frames of analysis.

**372 Cultures of the World (4)**

Prereq: 101. Ethnographic sampling of similarities and differences in cultural systems found around the world and through time. Ethnographic focus varies. May be taken twice for credit.

**373 Perspectives in Anthropology (4)**

Prereq: 101, 201, 202. Includes topics from the following areas of anthropological concern: nature of scientific inquiry, ethnology, linguistics, archaeology, biological anthropology.

**375 Culture and Personality (4)**

Prereq: 101; psychology recommended. Interrelations between personality systems and cultural systems.

**376 Culture Contact and Change (4)**

Prereq: 101. Impacts of cultures upon one another; immediate and subsequent cultural adaptations; theory of change.

**377 Peasant Communities (4)**

Prereq: 101. Focuses on folk component of state societies.

**378 Human Ecology (4)**

Prereq: 101 or 202. Analysis of mutual and reciprocal relations between sociocultural systems and other systems in their environment; ecosystems and biotic communities in which human populations are included.

**381 Cultures of Sub-Saharan Africa (4)**

Prereq: 101. Survey of cultural diversity present in Sub-Saharan Africa with emphasis on application of anthropological theory and method to understanding of particular sociocultural systems.

**383 Cultures of Latin America (4)**

Prereq: 101. Survey of cultural systems in Latin America with focus on application of anthropological theory.

**385 Cultures of Southeast Asia (4)**

Prereq: 101. Survey of cultural systems of island and mainland Southeast Asia.

**386 Problems in Southeast Asian Anthropology (4)**

Prereq: 101. Selected topics of current theoretical

concern relating to Southeast Asia; comparison of different frames of analysis.

**387 Pacific Island Cultures (4)**

Prereq: 101. Anthropological exploration of Pacific island cultures and their evolution.

**388 Cultures of the Middle East (4)**

Prereq: 101. Survey of sociocultural systems in Contemporary Middle East and North Africa with applications of anthropological theory to analyze cultural similarities and differences. (Usually Zanesville campus only.)

**391 Primate Social Organization (4)**

Prereq: 101, 201. Exploration of nonhuman primate social behavior and social organization from anthropological perspective, with special focus on development of human cultural behavior.

**399 Readings in Anthropology (1-3, max 6)**

Prereq: major, 20 hrs ANTH. Supervised readings in various fields of anthropology: archaeology, ethnology, linguistics, biological anthropology.

**447 Forensic Anthropology (4)**

Prereq: 201 or LET 140 or BIOS 171. Forensic anthropology, deals with the identification of human remains in situations which generally result in litigation. The recovery and analysis of remains unrecognizable by conventional methods is covered.

**448 Blood, Bones, and Violence (4)**

Prereq: 447 or LET 140 or BIOS 171. The identification, study and analysis of fauna and how it affects the human skeleton.

**452 Anthropological Archaeology (4)**

Prereq: 202 and one 300-level course in archaeology or perm. Explores contemporary archaeology in which goals, methods, and theory are considered within the framework of science.

**455 Seminar in Methodology and Field Research (4, max 8)**

Prereq: 20 hrs ANTH. Practical training in application of methods to data in one of the following subfields: archaeology, ethnology, or biological anthropology.

**460 Kinship**

Prereq: 20 hrs ANTH. Theoretical framework and ethnographic work on kinship systems of various world cultures; non-Western family systems; kinship terminology, social change in kinship systems.

**465 Field School in Ohio Archaeology (5-10)**

Prereq: one 300- or 400-level ANTH course. Actual archaeological investigation of prehistoric Indian sites in Ohio. Involves survey, excavation, and laboratory analysis of materials, as well as lectures on anthropological archaeology as they pertain to Ohio.

**472 History of Anthropological Thought (4)**

Prereq: 20 hrs ANTH. In-depth examination of schools of anthropology as they have developed within various subfields at different times and places.

**490 Independent Research in Anthropology (1-10, max 10)**

Prereq: major, 20 hrs ANTH. Individual research in anthropology in specific problem areas in which student has demonstrated ability and interest.

**492 Human Evolution (4)**

Prereq: 201, jr. In-depth examination of evidence for biological macro-evolution of humankind. Hominoid and hominid fossil record; speciation; interpretation of fossil remains; and "fit" between paleontological and immunological approaches.

**494A Seminar in Cultural Anthropology (4)**

Prereq: 2 cultural ANTH courses at 300 level or above. Advanced course dealing with topics of current research interest in cultural anthropology. Topic varies according to individual course.



**494B Seminar in Biological Anthropology (4)**

Prereq: 373 or 391 or 492 or 496; jr. Advanced course dealing with topics of current research interest in biological anthropology. Topic varies according to individual course.

**494C Seminar in Archaeological Anthropology (4)**

Prereq: 361 or 363 or 364 or 367 or 370; jr. Advanced course dealing with topics of current research interest in archaeological anthropology. Topic varies according to individual course.

**494D Seminar in Human Ecology (4)**

Prereq: 2 ANTH courses at 300 level or above or perm. Advanced course dealing with topics of current research interest in human ecology. Topic varies according to individual course.

**495 Honors Thesis in Anthropology (1-5)**

Prereq: Sr., 3.5 g.p.a., and perm. Thesis option for majors.

**496 Human Diversity (4)**

Prereq: 201, jr. Exploration of human biological diversity/variability with emphasis on the populationist approach, namely anthropological genetics and demography.

**499 ANTH Internship (1-4)**

Prereq: ANTH major, 20 hours ANTH, overall G.P.A. and ANTH G.P.A 2.5 or above, perm. Internship option for majors.

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## Archaeology

Classical Archaeology, see Classics and World Religions. Anthropological Archaeology, see Anthropology.

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## Art (ART)

**Foundation Courses****110 Seeing and Knowing the Visual Arts (4) (2H)**

Introduction to perceiving and understanding meanings and organizational systems in traditional and contemporary visual arts in context of their social and cultural backgrounds.

**112 Foundations Photography (4)**

This studio/lecture course explores the photographic image as the basis for addressing issues related to all media from historical, critical, and diverse aesthetic perspectives.

**113 Three-Dimensional Studies (4)**

Studio projects in 3 dimensions exploring ordered and dynamic interactions of mass, plane, volume, and space. Introduction to processes and media. Not open to jr or sr art majors.

**116 Descriptive Drawing (4)**

Fundamental issues and concepts of drawing. Varied projects to develop the ability to perceive, interpret, and record information through an awareness of the conceptual and technical basis of drawing.

**117 Drawing: System and Color (4)**

Prereq: 116. Investigation of drawing concepts and methods with emphasis on design systems and principles. Studio activities include creative problem solving and research involving color theory, function, and applications in the making of art.

**118 Drawing: Process and Synthesis (4)**

Prereq: 116. Drawing from methodological, conceptual, and metaphorical points of view. Development of strategies for problem solving, building vocabulary, experimenting, and expanding concepts of drawing.

**211 Studio Concepts (4)**

Prereq: 116, 113, 116. A studio course with an emphasis on the conceptual activity of art making. An introduction to a variety of methodologies

for developing and executing ideas including research, assessment, analysis, and critical thinking. Particular attention given to conceptual structures and decision making processes.

**Art Education****260 Foundations of Art Education (4)**

Explores the history, philosophy, and curriculum developments in art education. Intended for prospective majors in art education.

**360A Visual Art Media for the Elementary Teacher (3)**

Prereq: jr. Introduction to the visual arts through media processes, and developing critical skills in description, interpretation, and analysis of art works.

**360B Visual Art Methods for the Elementary Teacher (3)**

Prereq: jr, 360A or concurrent. Development of appropriate teaching methodologies and cross-disciplinary curriculum planning.

**461 Teaching Art in the Elementary School (6)**

Prereq: 260, adm. to art education major. Focus on teaching methodologies, art materials, assessment and evaluation for middle childhood education (grades 4-8).

**462 Teaching Art in the Secondary School (4)**

Prereq: 260, adm. to art education major. Prepares pre-service teacher for teaching in the secondary high school. Development of curriculum, teaching methodologies, and assessment.

**Ceramics Studio Courses****221 Introduction to Ceramics I (5)**

Prereq: 112, 113, 116. Three-dimensional form exploration using additive construction processes. Simple Engobe, slips, and clay-body formulations accompany projects.

**222 Introduction to Ceramics II (5)**

Prereq: 112, 113, 116. Introduction to creative possibilities of potter's wheel. Functional projects using acquired decorative skills.

**223 Introduction to Ceramics III (5)**

Prereq: 221, 222. Increase in scale and scope of individual solutions. Intermediate throwing problems with the goal of developing skilled production abilities. Emphasizes utilitarian object making with a sensitivity toward quality of ware and value of the handmade object.

**321A Intermediate Ceramics I (5)**

Prereq: 223. Expanded 3-D investigation into ceramic as a material for contemporary personal expression. Scale and larger ceramic forms and techniques to achieve scale are introduced.

**322A Intermediate Ceramics II (5)**

Prereq: 321A. Exploration of alternative construction techniques in ceramics to foster expressive sophistication. Plaster and nonplaster molds are introduced as tools for ceramic construction.

**323A Intermediate Ceramics III (5)**

Prereq: 322A. Explores clay and glaze calculation techniques. Students investigate ceramic materials and firing processes relevant to producing ceramic art.

**421A Advanced Ceramics (5)**

Prereq: 323A. Development of skills and ideas to prepare for a career as a ceramic artist; personal research and development of techniques, ceramics history, and concepts are emphasized.

**422A Ceramics Workshop (5, max 10)**

Prereq: 421A. Traditional and nontraditional methods and concepts relating to the ceramic arts.

**429 Ceramics Topics (3)**

Prereq: major studio area School of Art. Individual exploration of technical and conceptual issues in ceramics.

**Graphic Design Studio Courses****250 Design Principles (5)**

Prereq: 112, 113, 116. Investigation of the creation of meaning through visual form. Explores meaning through typography, image generation and manipulation, sign/symbol/icon, and visual contrasts. Emphasis on the use of digital graphic-generating technologies.

**251 Typography (5)**

Prereq: 250. Introduction to the use of typography as symbolic form. Study of typography history, nomenclature, and meaning generation through letterform construction and digital composition.

**254 Letter Form (5)**

Prereq: 112, 113, 116. Lettering as design and communication element. History and techniques of lettering and calligraphy.

**255 Form and Content (5)**

Prereq: 251. Exploration of graphic image generation through the use of digital and non-digital methods. Conceptual thinking, problem solving, and the integration of meaning and content to the construction of visual form.

**351 Graphic Design: Junior Studio (5)**

Prereq: 10 hrs 200-level graphic design, portfolio review, and perm. Integrative use of digital design technologies to explore concepts of color, page layout, image construction, typography, problem solving, and meaning.

**352 Graphic Design: Junior Studio (5)**

Prereq: 351. Emphasis on typography as visual form and communication. Creation of multi-paged formats that study sequence, repetition, flow, graphic and semantic content, and the context of meaning.

**353 Graphic Design: Junior Studio (5)**

Prereq: 352. Emphasis on design and application of symbolic form, including logos, marks, icons, logo types and their use in the creation of meaning in design systems. Concepts of branding, manipulation, metaphor, and context will be explored.

**450 Senior Studio Thesis Project (3)**

Prereq: sr only, art major. Preparation for senior presentation and portfolio (not a studio course).

**451 Graphic Design: Senior Studio (5)**

Prereq: sr graphic design major and perm. Emphasis on meaning construction through "personal voice," exploration of experimental image making and typographical design. Examination of the public/private in the presentation of graphic design solutions.

**452 Graphic Design: Senior Studio (5)**

Prereq: 451 or perm. Design problems carried through all professional stages. Examination of design in context of various applications.

**453 Graphic Design: Senior Studio (5)**

Prereq: 452 or perm. Emphasis on individual problems and individual professional orientation. Portfolio preparation and presentation. Production of brochure and preparation of resume.

**459 Graphic Design Topics (3)**

Prereq: 451 or concurrent. Lecture/seminar course intended as a historical reference relating to the discipline. Theory and practice of the graphic design profession (not a studio course).

**Painting Studio Courses****275A Basic Painting I (5)**

Prereq: 112, 113, 116. Development of formal, technical, and conceptual attitudes in painting.

**276A Basic Painting II (5)**

Prereq: 275A. Problems in painting, investigating recent developments and formal concepts.

**278 Watercolor and Expanded Media I (5)**

Prereq: jr or sr; 116 or concurrent. Techniques of transparent watercolor.



**279 Watercolor and Expanded Media II (5)**

Prereq: 278. Continuation of 278.

**375A Intermediate Painting I (5)**

Prereq: 276A, acceptance into a major area in the School of Art. Development of personal goals and identification of issues with emphasis on individual, creative problems in painting. Not repeatable for credit.

**376A Intermediate Painting II (5)**

Prereq: 375A. Continuation of 375A. Not repeatable for credit.

**377A Intermediate Painting III (5)**

Prereq: 376A. Continuation of 376A. Not repeatable for credit.

**378 Figure Painting (5)**

Prereq: 118, 276A. Painting from model.

**475A Advanced Painting I (5)**

Prereq: 377A and painting major. Advanced problems in painting.

**476A Advanced Painting II (5)**

Prereq: 475A and permission. Continuation of 475A.

**477A Advanced Painting III (5)**

Prereq: 476A and permission. Continuation of 476A.

**Photography Studio Courses****281 Photography I: Black and White (5)**

Prereq: 112, 113, 116. Introduction to black and white photographic processes and materials, and to photographic history, criticism, and conceptual practice.

**282 Photography II: Color (5)**

Prereq: 281. Introduction to color negative materials and processes.

**283 Photography III: Digital (5)**

Prereq: 281. Students develop conceptual, aesthetic, and technical control of their chosen materials.

**380 Photography Topics (3)**

Prereq: photography major, jr. Critical review of historical as well as current issues in photography (not a studio course).

**381 Photographic Arts I (5)**

Prereq: 283, successful portfolio review. Application of contemporary monochrome materials to selected range of problems within discipline.

**382 Photographic Arts II (5)**

Prereq: 283, successful portfolio review. Application of series and sequential imagery to expression in photography.

**383A Photographic Arts III (5)**

Prereq: 283, successful portfolio review. Experimental methods and materials (gum bichromate, magazine lifts, photo montage, quickprint, 3-color overlays, Kodalith, and multiple printing).

**384 Photographic Arts IV (5)**

Prereq: 283, successful portfolio review. Sensitometric control of color printing processes, dye transfer, color separation, and masking.

**481A Advanced Photographic Arts I (5)**

Prereq: 383A. Individual problems and seminars.

**482 Advanced Photographic Arts II (5)**

Prereq: 481A. Individual problems and seminars.

**483 Advanced Photographic Arts III (5)**

Prereq: 482. Individual problems and seminars.

**Printmaking Studio Courses****241 Lithography (5)**

Prereq: 112, 113, 116. Introduction to basic lithographic drawing and printing. Emphasis on application of techniques to image making.

**242 Etching (5)**

Prereq: 112, 113, 116. Introduction to basic techniques of intaglio printmaking, including

etching, dry-point, aquatint, and color printing. Emphasis on application of techniques to image making.

**247 Relief Printing (5)**

Prereq: 112, 113, 116. Basic techniques of relief printing from wood, metal, and assembled plates in both black and white and color. Emphasis on application of techniques to image making.

**248 Serigraphy (5)**

Prereq: 112, 113, 116. Basic techniques of screen printing including hand-cut stencils, photographic stencils, and multicolor printing. Emphasis on application of techniques to image making.

**341 Prints (5, max 15)**

Prereq: 5 hrs of 200-level printmaking courses. Supervised studio experience in printmaking media of student's choice (intaglio, lithography, relief, and/or serigraphy); includes demonstrations and lectures on related topics. Emphasis on development of techniques and concepts of printmaking.

**345 Papermaking (5)**

Prereq: ART 118. Papermaking language, history, and application as it relates to two-dimensional art works, books, and three-dimensional constructions.

**346 Art on Computers (5)**

Prereq: ART 118, Jr or Sr. Introduction of the Macintosh computer, providing experience in the computer's capability to design and to generate visual art images.

**347 Print Topics (5, max 15)**

Prereq: perm. In-depth view of historical topics and activities involving contemporary issues in the field of printmaking.

**441 Prints (5, max 15)**

Prereq: 15 hrs, 300L. Emphasis on personal and professional development in printmaking.

**442A Print Workshop (5, max 10)**

Prereq: 441. Emphasizes the studio development of the individual student and the student's preparation of a professional portfolio.

**Sculpture Studio Courses****231A Sculpture I (5)**

Prereq: 112, 113, 116. Exploration of traditional and contemporary concepts of sculpture through lectures, projects, and critical discussions.

**231B Sculpture II (5)**

Prereq: 112, 113, 116. The second course for prospective sculpture majors with emphasis on basic sculpture skills.

**232E Sculpture: Figure (5)**

Prereq: 112, 113, 116. Introduction to sculpture, based upon human figure; includes slide presentations; expression through form and gesture emphasized.

**233E Sculpture: Modeling (5)**

Prereq: 112, 113, 116. Emphasizes modeling techniques reflecting the expansion of processes and materials in the discipline.

**234E Sculpture: Casting (5)**

Prereq: 112, 113, 116. Introduction to techniques of sculpture concentrating on bronze casting and its historical and aesthetic development.

**235E Sculpture: Reductive (5)**

Prereq: 112, 113, 116. Basic approaches to carving techniques in various materials.

**331A Sculpture III (5)**

Prereq: 231B, acceptance into a major area in the School of Art. Designed for development of the sculptural idea as a major. Not repeatable for credit.

**331B Sculpture IV (5)**

Prereq: 331A. Emphasis on the nontraditional aspects of sculpture making and individual development. Not repeatable for credit.

**331C Sculpture V (5)**

Prereq: 331B. Emphasis on aesthetic development; projects based on individual student interest. Not repeatable for credit.

**431A Sculpture VI (5)**

Prereq: 331C. For sculpture majors, focusing on contemporary issues in sculpture. Not repeatable for credit.

**431B Sculpture Workshop (5, max 10)**

Prereq: 431A. Emphasizes each student's development as an artist.

**General Studio Courses****Drawing Sequence (drawing is not a major)****218 Figure Drawing I (5)**

Prereq: 118. (not offered every quarter) Drawing from model. Proportion, structure, and form. Various media.

**311 Drawing Media (4)**

Prereq: 218. An exploration of traditional and nontraditional techniques and media.

**318 Figure Drawing II (5)**

Prereq: 218. (not offered every quarter) Approach to personal imagery in drawing. Individual response to traditional and modern drawing attitudes.

**319 Intermediate Drawing (5)**

Prereq: 318. (not offered every qtr) Continuation of 318.

**418A Advanced Drawing (5)**

Prereq: 319. (not offered every qtr) Continuation of 319.

**Design Sequence****392D Letterpress and Bookmaking (5)**

Prereq: adm to major area School of Art. An introduction to handprinting techniques utilizing the letterpress with emphasis on the design and making of the handmade book.

**393D Text and Image in Graphic Design (5)**

Prereq: adm to major area School of Art. Concentration on text as it relates to graphic design imagery. This course will identify the individual's perception of typography as text and further enhance that level through customized exercises related to the individual's discipline.

**395D Media (5)**

Prereq: art major or perm. Time-based study of motion, light, and sound with emphasis on Web communication and design. Development of working methodologies specific to the non-linear construction of information for Web-based media technologies.

**Additional Art Courses****300J Criticism in the Visual Arts (4) (1J)**

Prereq: AH 211, 212, 213 or perm. Tier I composition class designed to encourage understanding of historical perspectives in critical writings on visual arts. Students will read and examine written criticism; develop research, grammar, and editing skills; and write analytical descriptive essays on appropriate visual arts subjects.

**393A Autopsical Art**

This nontraditional course provides the University student with a unique experience in understanding and developing aesthetic alternatives.

**490A Seminar in the Visual Arts (3)**

Prereq: sr and perm. Interdisciplinary course designed to deal with professional issues beyond those pertinent to specific media, to enrich experience in various areas and professional levels, and to permit exchange of information on current issues in art world. Not repeatable for credit.

**491A Art in Your Life (3)**

Nontraditional course designed to provide an alternative approach to the thinking and making of art.

**496A Studio Practicum (3)**

Prereq: sr art major. Preparation for senior presentation and portfolio. Requirement for all studio majors.

**496B Studio Project (3)**

Prereq: sr art major. Completion and installation of 8FA Exhibition. Requirement for all studio majors.

**497 Independent Study—Projects (1–5, max 5)**

Prereq: art major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Requires permission of faculty member prior to registration. Credit as non-studio elective only.

**498 Independent Study—Readings (1–5, max 5)**

Prereq: art major, sr, and perm. Reading and research to studio investigations. Intended for work that is not a reasonable part of regular studio courses. Credit as elective only.

**Regional Campus Offerings****115A Introduction to Painting (4)**

Enrollment at regional campus only. Credit as free elective only, not studio.

**125 Introduction to Ceramics (4)**

Enrollment at regional campus only. Credit as free elective only, not studio.

**141 Introduction to Printmaking (4)**

Enrollment at regional campus only. Credit as free elective only, not studio.

**151 Introduction to Graphic Design (4)**

Enrollment at regional campus only. Credit as free elective only, not studio.

**Art History (AH)****211 History of Art (4) (2H)**

Survey of Western painting, sculpture, and architecture from prehistoric through early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 211.

**212 History of Art (4) (2H)**

Continuation of 211 from early Medieval art in Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 212.

**213 History of Art (4) (2H)**

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for CA 213.

**214 History of Non-Western Art (4) (2C)**

Survey of non-western art traditions from Asia, the Americas, Africa, and the Pacific region from ancient times to present.

**237 Photo History Survey (4)**

Historical development of photography from its inception to present including comprehensive study of artistic and technical development of major photography movements.

**320 Greek Art (4)**

Prereq: jr or perm. Art of ancient Greece.

**321 Roman Art (4)**

Prereq: jr or perm. Art of ancient Rome

**322 Medieval Art (4)**

Prereq: jr or perm. Art of Europe from age of Constantine to art of Giotto.

**323 Italian Renaissance Art (4)**

Prereq: jr or perm. Art of 15th century Italy.

**324 Northern Renaissance Art (4)**

Prereq: jr or perm. Art of Northern Europe in 15th and 16th centuries.

**326 Baroque and Rococo Art (4)**

Art of Europe in 17th and 18th centuries.

**327 Art of the 19th Century (4)**

Prereq: jr or perm. European painting and sculpture from French Revolution through Symbolism.

**329 The Arts of the United States (4)**

Prereq: jr or perm. Art in U.S. from Colonial period.

**330 The Arts of the Orient (4) (2C)**

Prereq: jr or perm. Art of India, China, and Japan.

**331 Pre-Columbian Art (4) (2C)**

Prereq: jr or perm. Preconquest art of Mexico, Central and South America.

**332 West African Art (4)**

Prereq: jr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of West Africa.

**334 Ancient Near Eastern Art (4)**

Prereq: jr or perm. Motifs and monuments of Egypt, Mesopotamia, Assyria, and Babylonia.

**336 Modernist Theory and Criticism (4)**

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts in modernism, especially from the late 19th century to the later 1970s. Topics include formalism, expressionism, and the relationship of art to nature and society.

**341 History of Chinese Art (4)**

Prereq: jr. A survey of the major trends in the arts of China (from the Neolithic period to the 19th century) from a thematic point of view.

**342 Art of 20th Century China (4)**

Prereq: jr. The course will explore the ways in which Chinese artists of the 20th century have defined modernity and their tradition against the complex background of China's history.

**343 History of Japanese Art (4)**

Prereq: jr. A survey of the visual arts of Japan, prehistory through the 19th century, in both chronological and thematic approaches.

**350 Principles of Architecture (4)**

Introduction to styles, theories, and structural principles of architecture.

**351 Ancient Architecture (4)**

Prereq: jr or perm. Survey of architectural monuments and their historical settings in Near East, Egypt, Greece, and Rome.

**352 Medieval Architecture (4)**

Prereq: jr or perm. Survey of architectural monuments and their historical setting in early Christian, Byzantine, Romanesque, and Gothic periods.

**353 Renaissance and Baroque Architecture (4)**

Prereq: jr or perm. Survey of architects and monuments from 15th through 18th century.

**354 19th and 20th Century Architecture (4)**

Prereq: jr or perm. Survey of architects and monuments from historical revival styles through recent stylistic trends.

**360 Seminar in Art Historiography (4)**

Investigation of various methodological approaches to study of art.

**425 Art of High Renaissance and Mannerism (4)**

Prereq: sr or perm. Art of 16th century Italy.

**428 Modern Art (4)**

Prereq: sr or perm. Art of Europe from 1880 to 1945.

**433 Central African Art (4)**

Prereq: sr or perm. The visual art traditions, including sculpture, ceramics, textiles, and architecture, of the forest and savanna zones of Central Africa.

**435 Art Since 1945 (4)**

Prereq: sr or perm. Selected studies in visual

arts covering developments after 1945, such as Abstract Expressionism, Minimalism, Pop, Post-Modernism, performance, video, electrostatics, etc., to the present. This is a lecture course.

**438 Contemporary Art Theory and Criticism (4)**

Prereq: 211, 212, 213. An overview of the major theoretical and critical positions on the visual arts and contemporary culture. Topics include semiotics, poststructuralism, feminism, simulation, and theories of cultural and ethnic difference.

**440 Selected Topics in Art History (4)**

Prereq: sr or perm. Selected problems in the visual arts, such as interdisciplinary topics, cross-cultural studies, thematic treatments, technical investigations, and approaches to material. Content will vary with each offering of this course. Topic for course will be published during the quarter previous to being offered.

**497 Independent Study—Projects (1–6)**

Prereq: major, sr, and perm. Projects, ideas, or explorations that cannot reasonably be made within regular course structures. Credit as elective only.

**498 Independent Study—Readings (1–6)**

Prereq: major, sr, and perm. Reading and research in art history that cannot reasonably be made within regular course structures. Credit as elective only.

**Astronomy**

See Physics and Astronomy.

**Aviation (AVN)**

Contact the Aviation Department for a current list of course fees and detailed course descriptions. Due to FAA rules changes, all flight courses may vary from these descriptions. Note that course fees for flight courses are based on minimum completion times approved by the FAA and are subject to change. As flying is a skill, the actual course cost may vary and will be dependent upon the student's abilities, knowledge, and effort put toward acquiring pilot certification. All flight courses are offered in the fall, winter, spring, and summer quarters.

**100 Introduction to Aviation (4)**

(fall, winter, spring) Survey of civil aviation. Overview of aviation history, general aviation, types of air carrier aircraft, and the importance of the air transportation industry. Develops understanding of an airline flight from takeoff to landing.

**110 Basic Aeronautics (4)**

(fall, winter, spring) 40 hrs ground instruction covering radio navigation, meteorology, FAA regulations, communications, aircraft construction, and performance data to meet requirements of private pilot's written exam. 2 lec.

**240 Private Pilot Flight Course (4)**

Prereq: FAA written passed or perm. Meets requirements for private pilot's certificate. 1 lec, 3 lab. Course fee.

**240A Introduction to Flight (2)**

Prereq: 110 and perm. Dual and solo flight instruction in fundamentals of flight. Course fee.

**240B Introduction to Flight II (1)**

Prereq: perm. Dual and solo flight instruction. Introduction to cross-country navigation and use of radio aids to navigation. Course fee.

**240C Introduction to Flight III (1)**

Prereq: perm. Dual and solo flight instruction in cross-country navigation by pilotage, dead reckoning, and use of VOR, NDB, and HSI. Flight test preparation for private pilot certification included. Course fee.

**300 Aviation Laws and Regulations (4)**  
(spring) Student obtains knowledge, background, and understanding of aviation laws and regulations. Emphasis will be placed upon areas of legal concepts of operation, contracts, insurance and liability, regulatory statutes, and case law. In addition, various regulations of FAA, DOT, NTSB, and ICAO will be covered. 2 lec.

**305 Aviation Weather (4)**  
Prereq: 110. (winter) Identification of aviation weather hazards that affect pilots, dispatchers, and airport and airline management; familiarization with aviation weather products and providers; application of weather interpretation to flight scenarios.

**310 Advanced Aeronautics (4)**  
Prereq: 110. (fall, winter) 40 hrs ground instruction covering advanced aerodynamics, radio navigation, FAA regulations, aircraft construction and performance, theories of flight, weight and balance, and instruments to meet requirements of commercial written exam. 2 lec.

**315 Aviation Safety (4)**  
Prereq: 110. (fall) Overview of aviation safety from management and pilot perspectives, including fundamental aviation safety concepts, risk theory and management, safety terms, prevention methodology, effective safety program organization, human factors, inspection programs, data and analytical information systems, and regulatory requirements.

**320 Advanced Aircraft Systems (4)**  
Prereq: 310 or Comm. Pilot Cert.. (winter only) In-depth study of simple and complex aircraft fuel, electrical, hydraulic, and environmental systems. 2 lec.

**340 Cross-Country Flight (4)**  
Prereq: private pilot's certificate. Flight training consisting of cross-country flights and commercial maneuvers. 6 lab. Course fee.

**350 Instrument System Regulations and Procedures (4)**  
Prereq: 110. (fall, spring) 40 hrs of ground instruction covering various navigation systems and procedures, aircraft radios and communications, instrument flying, and air traffic control procedures. Includes functions of ATC centers, approach control, towers, and flight service stations. FAA regulations included. Meets all requirements for instrument pilot written exam. 2 lec.

**360 The National Airspace System (4)**  
Prereq: 110. (winter only) Covers topics such as procedures used to separate aircraft, flow control, ATC phraseology, and navigation in the national airspace system.

**390 Airline Operations and Management (4)**  
Prereq: 110. (fall) To give a broad understanding of the air transportation industry and the major management functions with an airline. Topics cover economics of airlines, managerial aspects, international aviation; career planning; and general aviation.

**400 Instrument Flight (4)**  
Prereq: Private pilot cert. and FAA written passed. Instruction in flight by sole reference to instruments. Preparation for instrument rating. 1 lec, 6 lab. Course fee.

**405 Advanced Cross Countries (4)**  
Prereq: 400. 46 hours of flight instruction consists of dual and solo cross countries and review of commercial maneuvers plus 8 hours of FTD. 1 lec, 6 lab. Course fee.

**410 Fundamentals of Aviation for Teachers (4)**  
Prereq: 310. Comprehensive course covering aeronautical knowledge required of private pilot: navigation, weather, federal regulations, theory of flight, aircraft performance, radio communications and navigation, and fundamentals of instruction for teachers of aviation; ground instruction required.

**415 Instrument Proficiency Check (1)**  
Prereq: Instrument Rating. Provides review of instrument procedures and FTD training to meet FAA current requirements. Course fee.

**420 Commercial Flight (4)**  
Prereq: 405 and FAA written passed. Flight instruction including 10 hrs in complex airplane. Preparation for single commercial certification. 1 lec, 6 lab. Course fee.

**430 Multi-Engine Flight Course (4)**  
Prereq: pilot's certificate and perm. 10 hrs of procedures with both engines operative, with 1 engine inoperative (feathered), single engine speeds, effects of airplane configuration on engine-out performance. Enroute operations, single engine approaches and landings. 1 lec, 4 lab. Course fee.

**435 Flight Engineer (4)**  
Prereq: Commercial pilot's certificate. Comprehensive course covering aeronautical knowledge acquired for the flight engineer rating, including federal aviation regulation, aerodynamics, meteorology, aircraft manuals, and aircraft systems.

**440 Flight Instructor Ground Instruction (4)**  
Prereq: commercial pilot's certificate or perm. (spring) 40 hrs ground instruction on FAA regulations and publications, weather, advanced flight computer operations, radio navigation, advanced aircraft and engine performance, and fundamentals of instructing. Covers requirements for flight instructor written exams. 2 lec.

**445 Flight Instructor Course (4)**  
Prereq: FAA written passed, commercial pilot's certificate. Review of commercial course with emphasis on how to instruct and analysis of maneuvers. 1 lec, 6 lab. Course fee.

**450 Instrument Instructor Ground Instruction (3)**  
Prereq: 350. 30 hrs review of instrument course with emphasis on how to instruct instrument flying. Covers requirements for instrument written exam. 2 lec.

**455 Instrument Instructor Flight Course (4)**  
Prereq: FAA written passed, flight instructor certificate. Review of instrument course with emphasis on how to instruct on instruments. 1 lec, 3 lab. Course fee.

**460 ATP Ground Instruction (4)**  
Prereq: FAR 61.153. Forty hours advanced course placing major emphasis on specific requirements and duties of airline transport pilots in accordance with Federal Aviation Regulations. Provides aeronautical requirements for airline transport pilot written exam. 2 lec.

**462 Multi-Engines Cross Countries (1)**  
Prereq: 430 and major. Multi-engine cross country flight into various controlled airports utilizing CRM techniques. Course fee.

**465 Flight Instructor Operations—Multi-Engine (2)**  
Prereq: flight instructor certificate with multi-engine rating and perm. Flight instruction in multi-engine operations and instruction practices, analysis of maneuvers, and practice teaching of multi-engine procedures; plus 1 hr lec/disc per wk. Course fee.

**470 ATP Multi-Engine Flight Course (2)**  
Prereq: FAA commercial pilot's certificate with multi-engine and instrument ratings, FAA ATP written passed, and perm. Comprehensive course covering aircraft systems, weight and balance, FARs, and multi-engine aerodynamics. Flight including proficiency maneuvers and instrument procedures. Course fee.

**475 Internship in Aviation Operations (1-15)**  
Prereq: written perm of dept chair. (fall, winter, spring, summer) Internship program in selected fields of aviation under direction of faculty member.

**480 General Aviation Operations and Management (4)**  
Prereq: 110. (spring) A comprehensive study of general aviation. Provides overview of general aviation history and scope, general aviation marketing, FBO operations and management, and an in-depth study of corporate and business aviation.

**485 Advanced Aircraft and Flight Crew Operations (5)**  
Prereq: AVN 400, AVN 420, AVN 430. (spring) Introduction to advanced flight crew concepts and procedures with emphasis on professional pilot development, safety standardization, and crew resource management (CRM) techniques. Selected technical subjects include turbine aircraft systems training, high altitude/pressurized aircraft qualification, and simulated industry-oriented flight training (air carrier instrument approach procedures, interview and training/qualification simulator profiles, and Line-Oriented Flight Training—LOFT). The course includes approximately 40 hours of lectures, 1 hour of flight instruction in turbine aircraft, and 12 hours of simulator instruction. Course fee.

**486 Principles of Corporate Flight Operations (4)**  
Prereq: AVN 485. Corporate pilot standards and practices with in-depth review of safety, standardization, and CRM concepts as applied to corporate flight operations. The course will also cover aircraft systems, preflight, performance calculations, weight and balance, and emergency procedures in various piston and turbo-prop aircraft.

**487 Corporate Flight Operations Internship (2-6)**  
Prereq: AVN 486; written perm. of dept. chair. This course is an internship working for Ohio University Air Transport Service (A.T.S.). Duties include flying as co-pilot in corporate flight operations in turbo-prop multi-engine aircraft, as well as ground duties as part of a corporate flight management team.

**489 Transition to Aviation Industry (2)**  
Prereq: AVN major; jr or sr. (winter) Discussions and exercises to improve communication and networking skills while increasing knowledge of student's area of focus in the aviation industry. Topics include resume writing, interviewing, goal setting, report writing, presentation skills, public relations, and professional responsibilities.

## Bacteriology

See Biological Sciences.

## Behavior

See Biological Sciences or Psychology.

## Biological Sciences

### Biological Sciences (BIOS)

**100 The Animal Kingdom (4) (2N)**  
S. Moody, M. Nossek. Designed for nonscience majors. A broad survey of all of the major groups of animals. Aspects of the biology, reproduction, ecology, and evolution of the animal phyla. Credit not allowed for both 100 and 173.

**103 Human Biology Basic Principles (5) (2N)**  
Staff. Designed for nonscience majors. Humans as biological organisms; our origins, ecology, and inheritance, and functioning of our body systems. 5 lec.

**109 Readings in Biology (2)**  
Prereq: concurrent enrollment in BIOS 170, 171, or 172. L. DiCaprio, S. Simon Westendorf. Small group study and discussion of topics only.

peripherally covered in the BIOS 170 series. Taken concurrently with introductory biology, it provides an informal forum to read about, discuss, and present topics that go beyond the textbook.

**130 Principles of Human Anatomy and Physiology I (5) (2N)**

(Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of cells, tissues, and the integumentary, skeletal, and muscular systems. Cat used for dissection. 3 lec, 4 lab.

**131 Principles of Human Anatomy and Physiology II (5) (2N)**

Prereq: 130. (Chillicothe, Lancaster, and Zanesville campus only) Introduction to the structure and function of the human body in the study of the digestive, urinary, reproductive, cardiovascular, lymphatic, respiratory, endocrine, and nervous systems. Cat used for dissection. 3 lec, 4 lab.

**170 Introduction to Zoology (5)(2N)**

Prereq: minimum ACT composite score 23 or SAT total 1060 or (MATH PL 2 and CHEM 151 placement) or C- or better in CHEM 121 or CHEM 151. *R. Colvin, L. DiCaprio, S. Simon Westendorf.* Cellular and molecular biology. Designed for science majors and preprofessional students. Introduction to the chemistry of life, cell structure and function, and the principles of inheritance. Laboratories enhance lecture coverage of major topics with emphasis on experimental design and critical analysis. Credit not allowed for both 170 and any of the following: BIOL 101, PBIO 110, PBIO 114. 4 lec, 3 lab.

**171 Introduction to Zoology (5) (2N)**

Prereq: C- or better in 170 or PBIO 110 or 114. *L. DiCaprio, D. Karjaka.* Animal organ systems. Designed for science majors and preprofessional students. Introduction to multicellular life, organ systems, physiology, and animal development; emphasis is on comparative strategies within the animal kingdom. Laboratories enhance lecture coverage of major topics with dissections and experiments 4 lec, 3 lab.

**172 Introduction to Zoology (3) (2N)**

Prereq: 171, C or better. *M. Morris, W. Roosenburg.* Ecology and evolutionary biology. Designed for science majors and preprofessional students. Introduction to the principles of evolution, ecology, and behavior. 3 lec.

**173 Introduction to Zoology (1) (2N)**

Prereq: 171, C or better; or PBIO 111 or 211. *M. Nossek.* Laboratory survey of the major phyla of the animal kingdom to reveal evolutionary relationships and structural and functional characteristics. Credit not allowed for both 100 and 173. 2 lab.

**201 Elementary Microbiology (4) (2N)**

Prereq: one qtr CHEM and BIOS or PBIO. (Chillicothe and Zanesville campus only, spring) Medical microbiology; topics include microbial and fungal growth, metabolism, and genetics; antimicrobial chemotherapy; principles of immunology, microorganisms, and infectious diseases. 3 lec, 2 lab.

**202 Sex Differences and the Brain (4) (2N)**

Genetic, hormonal, and environmental influences that affect the development of brain structure and function in male and female humans. Lecture, discussion, and group report formats. (Eastern Campus only)

**203 Human Biology II: Essentials of Anatomy and Physiology (4)**

Prereq: BIOS 103 or BIOS 171. *E. Peterson, M. Rowe.* Introduction to functional anatomy of the human body. Emphasis is on the musculoskeletal system and its control by the nervous system. Students will learn how the skeleton, major muscle groups, and nervous system work together during human behaviors such as posture, locomotion, control of the hands, respiration. 4 lec.

**204 Human Biology II Laboratory: Functional Anatomy (1)**

Prereq: BIOS 203 or concurrent. Laboratory introduction to functional human anatomy. Emphasis is on the musculoskeletal and other major organ systems: nervous, circulatory, respiratory, and gastrointestinal systems. Students will explore the major patterns of the musculoskeletal and other organ systems through practical exercises with joint-muscle and tissue organ relationships using articulated skeletons, surface anatomy, and dissection. 3 lab.

**220 Conservation and Biodiversity (4) (2A)**

Credit not allowed for both 220 and 481. *D. Miles, M. White.* Designed for nonscience majors. Introduces the student to the modern field of conservation biology and the role of genetics, ecology, life history, and biogeography in the preservation and maintenance of biodiversity. Case studies of endangered animal and plant species will be highlighted. 4 lec.

**221 Microbes and Humans (4) (2A)**

Staff. Prereq: one qtr BIOS or PBIO or chemistry or perm. *E. Rowland, K. Mammon.* Natural microbial activities, their function in waste and pollution reclamation and disposal, water purification, food production and spoilage, and in public health. 4 lec.

**222 Microbes and Humans, Laboratory (2) (2A)**

Prereq: 211 or concurrent. *J. Cunningham.* Characteristics and activities of microbes of special relevance to humans' welfare and those affecting maintenance of environmental quality. 4 lab.

**225 Genetics in Human Society (4) (2N)**

Prereq: h.s. or college biology (for nondepartmental majors; no credit for those who have credit for 325). *H. Schutte.* Basic principles of inheritance in humans. Normal and abnormal chromosome constitutions, gene-protein interrelationships, and factors that cause mutations of genes and chromosomes. Significance of genetics in life of human society. 4 lec.

**275 Ecology in the 21st Century (4) (2N)**

*S. Reilly.* Introductory study of the natural environment and relations of organisms to each other and their surroundings. Individual, population, and community and global dynamics are considered in natural and human influenced environments to improve ecological literacy about how the natural world works. Credit not allowed for both 275 and 375. 4 lec.

**297T Zoology Tutorial (1-15)**

Prereq: perm. *L. Crockett.* Special courses offered to students in Honors Tutorial program.

**298T Zoology Tutorial (1-15)**

Prereq: perm. *L. Crockett.* Continuation of 297T. See 297T for description.

**299T Zoology Tutorial (1-15)**

Prereq: perm. *L. Crockett.* Continuation of 297T-298T. See 297T for description.

**300 Anatomy and Histology (6)**

Prereq: 171, C or better, or perm; not open to fr; may be taken concurrently with 345. *R. Hikida.* Gross and microscopic structure of the basic tissues and organ systems of the human body. Cat used for dissection. Human systems also used. 4 lec, 4 lab.

**301 Human Anatomy (6)**

Prereq: C or better in BIOS 171; not open to fr; no credit if 302. *J. Zook.* Structure and general function of all body systems with emphasis on human musculoskeletal system. Cat used for dissection and human skeletons studied. 3 lec, 6 lab.

**302 Human Anatomy for Nonmajors (6)**

Prereq: 103 or 171 or BIOL 101; not open to fr. *J. Zook.* Structure and general function of all body systems, with emphasis on human musculoskeletal systems. Cat used for dissection and human skeletons studied. 3 lec, 6 lab. No credit for BIOS majors; no credit if 301 taken.

**303 Comparative Vertebrate Anatomy (6)**

Prereq: 172, 173, C or better, not open to fr. *R. Carr, S. Reilly.* Comparative study of the anatomy of vertebrates. Structure, function, and evolution of the vertebrate body forms and organ systems are compared. Extensive lab work covers each of the major classes of vertebrates. 4 lec, 6 lab.

**311 Computer Simulation in Biology (4)**

Prereq: MATH 263B or MATH 266B. *W. Holmes.* Introduction to computer modeling and simulation in biological research. Designed to illustrate the power and limitations of computer simulation by having students code (in MATLAB) simulation programs for a number of different biological phenomena. Quantitative models used include models of enzyme kinetics, population biology, population genetics, diffusion models, and compartmental models in physiology. 3 lec, 2 lab.

**316 Biogeography (4)**

Prereq: BIOS 173 or GEOG 101, no credit if GEOG 316 taken. *J. Dyer.* An examination of historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross listed with GEOG 316). 4 lec.

**320 Fundamentals of Animal Cell Biology (4)**

Prereq: BIOS 172 and 173 or concurrent. *J. Duerr, T. Sugiyama.* Comprehensive introduction to the structure and function of animal cells, emphasizing fundamental principles and concepts of modern cell biology and the dynamic nature of cells and their components. 4 lec.

**321 General Microbiology (5)**

Prereq: 10 hrs BIOS, MICR, PBIO. *Staff, J. Cunningham, L. LaPierre.* Overview of bacteria, protista, viruses and their relationship to us and our environment. Lab training in common microbiological methods. 3 lec, 4 lab.

**325 General Genetics (5)**

Prereq: C or better in BIOS 172 and 173, or PBIO 111 and BIOS 320 concurrent. *S. Tanda, M. White.* Principles and concepts of genetics as revealed by classical and modern investigation. 5 lec.

**326 Laboratory Genetics (4)**

Prereq: C or better in BIOS 325. *D. Holzschu.* Experiments in basic bacterial, yeast, and *Drosophila* molecular genetics. Experiments include site-directed mutagenesis, yeast 2-hybrid analysis, and transposon mutagenesis in *Drosophila*. Recombinant DNA techniques designed to familiarize the student with current laboratory procedures in molecular genetics. 8 lab.

**330 Principles of Evolution (4)**

Prereq: C- or better in BIOS 325. *G. Svendsen.* Study of the microevolutionary and macroevolutionary processes, and patterns that explain and characterize the history and diversity of life on earth. 4 lec.

**333 Neural Basis of Behavior (3)**

Prereq: C or better BIOS 172, 173. *R. DiCaprio, S. Hooper.* Overview of how animal nervous systems generate behavior. The first half introduces brain and neuronal physiology and anatomy, sensory and motor systems, sensory-motor integration, and motivational states. The second half uses exemplar neuroethological case studies to integrate this information. 3 lec.

**342 Principles of Physiology I (3)**

Prereq: PHYS 202 or 252 or 262 concurrent, CHEM 153; 171, C or better. *Staff.* Function of animal cells and organs emphasizing the physical and chemical principles underlying physiological processes. Focus on chemical messengers, metabolic processes, membrane properties of excitable and nonexcitable cells, and muscle function. 3 lec.

**343 Principles of Physiology II (3)**

Prereq: C- or better in 342. *Staff.* Physiological processes underlying circulation, gas exchange, water and solute balance, and temperature relations. 3 lec.

**345 Human Physiology (4)**

Prereq: 300 or 301 or 302 or concurrent; not open to fr. *R. Gilders*, C. *Schwirian*, D. *Kurjiaka*. Covers basic cell physiology through most organ systems, focusing on humans. Emphasis on physiological regulation and physiological responses to various stresses. 4 lec.

**346 Human Physiology Laboratory (3)**

Prereq: anatomy; 345 or concurrent; PSY 221 or MATH 251. C. *Schwirian*. Lab experiences designed to complement material covered in 345. 6 lab.

**352 Biomechanics (4)**

Prereq: 301 or 302. S. *Bullard*. Analysis of human motion based on anatomical, physiological, and mechanical principles. 3 lec, 2 lab. Credit not allowed for both 352 and PESS 302.

**354 Principles of Physiology Lab I (2)**

Prereq: major, 342 or concurrent. M. *Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 342. 4 lab.

**355 Principles of Physiology Lab II (2)**

Prereq: 343 or concurrent, 354. M. *Chamberlin*. Laboratory exercises designed to illustrate the experimental basis of principles covered in 343. 4 lab.

**364 Forensic Biology (4)**

Prereq: C or better in BIOS 171 and CHEM 351; forensic chemistry major. S. *Moody*. Provides experience in microscopic techniques; identification of hair, fibers, and bones; identification and grouping of blood; entomological and anthropological technologies in forensics; and identification of semen. 2 lec, 4 lab.

**375 Animal Ecology (4)**

Prereq: C or better in 172 or PBIO 111 or 211 and MATH 163A, 263A or 266A or concurrent. No credit for both 275 and 375. W. *Roosenburg*. An exploration of empirical and theoretical aspects of how animals interact with their environment. This mechanism-oriented class will evaluate ecological processes at the individual, population, community, and ecosystem levels. 4 lec.

**376 Field Ecology (4)**

Prereq: BIOS major, C or better in 172 and 173. G. *Svendsen*. Quantitative analysis of field problems in ecology; consisting of design of field experiments and hypothesis testing, graphic and statistical analysis of data; interpretation of results and report writing. 1 lec, 6 lab.

**382A Clinical Laboratory Observation (1)**

Prereq: clinical laboratory science major. J. *Cunningham*. Gives student opportunity to observe activities characteristic of clinical lab. Observations made in hospital setting so that, along with other background information provided, student may be better able to evaluate lab work as career choice.

**384 Bioethics: Bioethical Problems in Biology and Medicine (5)**

Prereq: 9 hrs BIOS or PBIO. (Lancaster campus only) Ethical problems arising from rapid advances in biological and biomedical research. Topics include: human experimentation, fetal research, informed consent, death with dignity, euthanasia, reproductive advances, sex control, test tube babies, surrogate mothers, public policy and bioethics, health care delivery, mental health, and genetic screening. 5 lec.

**385 Microbial Ecology (3)**

Prereq: 321. P. *Coschigano*. Examines the interactions of microorganisms with their biotic and abiotic surroundings, including interactions with plants, animals, other microorganisms, air, water, and soil. Additional topics include waste treatment, biogeochemical cycling, and biodegradation/bioremediation. 3 lec.

**390H Biology and the Future of Man (5)**

Prereq: perm. (Lancaster campus only) Course covers human sexuality, physiological effects of environmental pollutants, drugs of abuse, and

introduction to advances in biological technology that influence future of humans. 5 lec.

**392A Topics in Zoology for Nonmajors (1-3, max 8)**

Prereq: BIOS 170 or BIOL 101 or PBIO 110 or 114, perm of specific instructor. Individual or small-group study, under supervision of instructor, of topics not otherwise available to undergrad students. Credit not applicable toward major and minor in biological sciences or microbiology. Special registration with departmental secretary absolutely required.

**397T Zoology Tutorial (1-15)**

Prereq: perm. L. *Crockett*. Special courses offered to students in Honors Tutorial program.

**398T Zoology Tutorial (1-15)**

Prereq: perm. L. *Crockett*. Continuation of 397T. See 397T for description.

**399T Zoology Tutorial (1-15)**

Prereq: perm. L. *Crockett*. Continuation of 397T-398T. See 397T for description.

**403 Teaching Vertebrate Anatomy (3-4)**

Prereq: perm. R. *Carr*, S. *Reilly*. Students receive advanced training in vertebrate anatomy via lectures and dissections and give presentations while assisting in teaching vertebrate anatomy courses. 1 lec, 6-8 lab.

**407 Developmental Biology (4)**

Prereq: C or better, BIOS 325. S. *Tanda*. Mechanisms of animal development at tissue, cellular, and molecular levels of organization, with emphasis on experimental approaches. 4 lec.

**413 Human Neuroscience (4)**

Prereq: C or better in BIOS 301 or 303 and 345 or 342 or perm. E. *Peterson*, M. *Rowe*. Basic structure and function of the mammalian nervous system. Special attention is given to the human brain and to human brain dysfunction. Students complete a human brain dissection in the laboratory component of the course.

**414 Molecular and Cellular Neuroscience (4)**

Prereq: C or better in BIOS 342 or 345; and Math 163B or 263B or 266B. R. *Colvin*. Introduction to the molecular and cellular basis of the functioning of the nervous system. Topics include morphology, excitable properties of neurons, mathematical modeling, synaptic function, molecular biology, signal transduction, gene expression, and neuronal development. 4 lec.

**415 Neural Basis of Sensation and Movement (4)**

Prereq: C or better in BIOS 342 or 414 or perm. E. *Peterson*, M. *Rowe*. Sensory system function and the neural control of movement in vertebrates; how molecules, cells, and circuits of nervous systems give rise to sensation (vision, hearing, touch, smell, etc.) and to basic behaviors (locomotion, posture, orientation of head and eyes toward sensory stimuli, etc.). In each class, students hear a lecture and discuss assigned articles from the research literature. A major goal of the course is to train students in critical analysis of primary journal articles. 4 lec.

**417 Cognitive Neuroscience (4)**

Prereq: C or better in BIOS 415 or perm. E. *Peterson*, M. *Rowe*. Neural basis of higher-order processes in vertebrates: learning and memory, perception, attention, emotion, consciousness. Topics are considered at behavioral, cellular, and molecular levels. Students are encouraged to understand cognitive processes by integrating research results from multiple levels. In each class, students discuss original journal articles and recent scholarly reviews of topics in cognitive neuroscience. A major goal of the course is to train students in effective presentation of research literature and leadership of group discussions. 4 lec.

**418 Methods in Computational Neuroscience (4)**

Prereq: BIOS 414 and MATH 263B or 266. W. *Holmes*. Lecture, discussion, and computer lab. Introduction to mathematical and computational

techniques for modeling single neurons and networks of neurons. Cable theory; Rall's model; compartmental models; introduction to available software for simulating neurons and networks of neurons; modeling of action potentials, Hodgkin-Huxley equations, synaptic conductances, and voltage-dependent conductances; Hebbian synapses; synaptic modification rules; quantal analysis; neural networks. Students are expected to complete a simulation project using one of the available software packages. 3 lec, 2 lab arr.

**422 Microbiological Techniques (5)**

Prereq: 321 or perm. J. *Cunningham*. Semi-independent course gives the microbiology and clinical lab science student extensive experience in the use of standard microbiological equipment and techniques. Experience will be gained in media preparation, bacterial identification procedures, eucaryotic tissue culture, anaerobic methods, protein and DNA isolation and quantitation; all with an applied emphasis. 2 lec, 6 lab.

**423A Pathogenic Bacteriology (3)**

Prereq: C or better in 321. J. *Cunningham*. Microorganisms in relation to disease. Disease manifestations; diagnostic and control methods; some aspects of immunity. 3 lec.

**423B Pathogenic Bacteriology Laboratory (2)**

Prereq: 311; 423A or concurrent. J. *Cunningham*. Pathogenic and clinical diagnostic bacteriological techniques. Complements the lecture material in 423A. 4 lab.

**424A Virology (3)**

Prereq: C or better in BIOS 320 and 325. L. *LaPierre*. Course intended to familiarize students with the principles of virology and focuses on human and animal viruses. Emphasis is placed on the molecular events following virus-cell interaction, which are critical to viral replication and pathology. Topics also include viral evolution, novel infectious agents, use of viruses for gene therapy, and modern methods of studying viruses.

**424B Virology Laboratory (2)**

Prereq: 424A or concurrent; perm. *Staff*. Limited to microbiology majors, others by perm if seats available. 4 lab.

**425 Evolutionary Genetics (4)**

Prereq: C or better in BIOS 325, PSY 221 or equiv. M. *White*. Basic concepts of population genetics (mutation, gene flow, natural selection, genetic drift). Rates, patterns, and processes of molecular evolution at the population and species level. 4 lec.

**426 Molecular Genetics (3)**

Prereq: C or better in BIOS 325. BIOS 321 recommended. D. *Holzschu*. Topics will emphasize the interaction of microbial genetics with molecular biology and biotechnology. Genetics of selected bacteria, their bacteriophages, and yeast are covered. Topics include the genetic elements of bacteria, bacteriophage and yeast; mutations and mutagenesis, mitochondrial genetics and prions, mechanisms of gene transfer and recombination, regulation of gene expression and recombinant DNA. 3 lec.

**427 Mechanisms of Gene Regulation (3)**

Prereq: C or better in BIOS 325 and jr or sr. L. *LaPierre*. Class is intended for upper-level undergraduates and graduate students. An in-depth discussion of the molecular events that regulate eucaryotic gene expression. Topics also include gene regulation during differentiation and development, aberrant transcription and disease, generation and utility of transgenic animals, and genomics-based analysis of gene expression.

**429 Marine Biology (5)**

Prereq: C or better in 172 and 173 or perm; 430 recommended. W. *Currie*. Biological processes in marine and estuarine habitats, and adaptations for life at sea; emphasis on environmental variables affecting distribution, abundance, and dynamics of marine plants and animals. Includes five-day field trip to temperate marine environment late in quarter, estimated cost \$200

per student; limited to 20 students. 5 lec, field trip.

#### 430 Invertebrate Biology (6)

Prereq: C or better in 173 or perm. *P. Hassett*. The major taxa of marine and freshwater invertebrates: structure, function, development, evolutionary relationships, and ecological adaptations. 4 lec, 4 lab.

#### 431 Limnology (5)

Prereq: C or better in 172 and 173, PBIO 111 or 211, CHEM 153, or equiv, or perm. *W. Currie*. Physical, chemical, and biological processes in lakes and running waters. Emphasis on the collection and analysis of environmental and ecological data describing populations and communities. Lab includes field sampling of local habitats. 4 lec, 3 lab.

#### 435 Entomology (6)

Prereq: C or better in 172, 173 or PBIO 111 or 211 or perm. *K. Johnson*. Overview of insect biology. Lecture: insect morphology, physiology, behavior, systematics, evolution, and ecology. Discussion of current issues relating to conservation and pest management in agriculture. Lab: emphasis on field trips, insect collection and identification. 4 lec, 4 lab.

#### 441A Parasitology (3)

Prereq: 172, 173. *E. Rowland*. Etiology of human parasites, their transmission, diagnosis, and prevention. 3 lec.

#### 441B Parasitology Laboratory (2)

Prereq: BIOS 441A or concurrent. *E. Rowland*. Laboratory survey of protozoan and helminth parasites with emphasis on life cycles and identification. 4 lab.

#### 445 Physiology of Exercise (4)

Prereq: 343 or 345. *R. Gilders, D. A. Loucks*. Fundamental concepts and application of organ systems' responses to exercise: special reference to skeletal muscle metabolism, energy expenditure, cardio-respiratory regulation, and training and environmental adaptations. 4 lec. (Same as PESS 414.)

#### 446 Physiology of Exercise Laboratory (3)

Prereq: 343 or 345; 445 concurrent. *C. Schwirian*. Lab experiences designed to complement 445. 6 lab. (Same as PESS 415.)

#### 450 Principles of Endocrinology (4)

Prereq: C or better in 342 or 345 or perm. *A. Loucks*. Endocrine control of mammalian homeostasis and metabolism. 4 lec.

#### 456 Advanced Topics in Physiology (4)

Prereq: B or better in BIOS 342, 343, 354, 355, or perm. *M. Chamberlin*. Lecture and discussion of current research in physiology. Topics include membrane, epithelial, cardiovascular, respiratory, excretory, thermal, and metabolic physiology. The lab component will entail research projects designed and conducted by the students under the supervision of the instructors. 4 lec.

#### 457 Animal Systematics (4)

Prereq: C or better in 325, 477 or 478 or 479, MATH 263B or 266B. *Staff*. Principles and methods of systematic zoology. Numerical methods and hypothetico-deductive reasoning applied to study of organismic diversity (taxonomy) and geographic distribution (biogeography). Use of computer stressed. 3 lec, 2 hr disc. and computer work.

#### 458 Biology of Amphibians (3)

Prereq: BIOS 330 and jr; no credit if 472. *S. Moody*. Evolutionary origin, taxonomy and classification, anatomy physiology, ecology, behavior and genetics of amphibians (caecilians, frogs and toads, salamanders and sirens). Field techniques of safe capture and monitoring for population presence and abundance. Identification of Ohio species and North American genera and families. Field trips are an integral part of this course. 2 lec, 3 lab, and field trips.

#### 459 Biology of Reptiles (3)

Prereq: BIOS 330 and jr; no credit if 472. *S. Moody*.

Evolutionary origin, taxonomy and classification, anatomy physiology, ecology, behavior and genetics of reptiles (turtles, crocodylians, tuataras, lizards, and snakes). Field techniques of safe capture and monitoring for population presence and abundance. Identification of Ohio species and North American genera and families. 2 lec, 3 lab and field trips.

#### 462 Animal Physiological Ecology (4)

Prereq: 343; 275 or PBIO 209 or 425; MATH 163B or 263B or 266B. *L. Crockett, K. Johnson, W. Roosenburg*. Examines how organismal physiology is affected by the physical environment. Comparative approaches explore the behavioral, physiological, and biochemical responses to environmental factors. Current topics and methods are addressed in selected readings and discussion. 4 lec.

#### 463 Cell Chemistry (4)

Prereq: C or better in 171; CHEM 302 or 307, CHEM 123 for HEFN. *L. Crockett*. Structure/function of proteins, lipids, and carbohydrates. Principles of enzyme kinetics, chemical/physical, and functional properties of biological membranes. Biochemistry of energy metabolism and mechanisms of metabolic regulation. 4 lec.

#### 465 Ichthyology (6)

Prereq: 172. No credit if 468. Biology of fishes. Lectures emphasize anatomy, physiology, ecology, taxonomy, and evolution. Labs and field trips emphasize identification of Ohio species. 4 lec, 4 lab.

#### 470A,B,C,D Clinical Laboratory Science Internship

52-week clinical internship includes theoretical and practical coursework in all phases of clinical lab science at accredited school of clinical laboratory science. Required for certification as a clinical laboratory scientist.

#### 471 Ornithology (6)

Prereq: 20 hrs BIOS including 303. *D. Miles*. Bird biology, including discussions on anatomy, physiology, conservation biology, life histories, and role of ornithology in current ecological and evolutionary theory. 4 lec, 4 lab, and field.

#### 473 Animal Behavior (5)

Prereq: C or better in 172, 173, jr. *M. Morris*. Ecological, physiological, and developmental aspects of animal behavior, interpreted from the perspective of evolutionary biology. 5 lec.

#### 474 Mammalogy (6)

Prereq: C or better in 172, 173. *G. Svendsen*. Mammals; their origin, evolution and adaptations, geographical distribution, ecology, and systematics. Emphasis on local fauna. 4 lec, 4 lab, and field.

#### 475 Sociobiology (3)

Prereq: 479 or perm. *G. Svendsen*. Current understanding of how and why animal social behavior evolved, including spacing, mating, and parental behavior of solitary as well as social animals. Lectures, reading, and reports. 3 lec.

#### 477 Population Ecology (4)

Prereq: BIOS 375 or 330. *K. Cuddington*. Major theories and concepts in population and evolutionary ecology. Emphasis on mathematical models pertaining to growth and regulation of populations; population interactions, including predation and competition, distribution and abundance, and life history theory. 4 lec.

#### 478 Community Ecology (4)

Prereq: BIOS 375 or 330. *D. Miles*. This course will provide a theoretical and empirical examination of the description, structure, and organization of communities. Emphasis will be placed on mathematical models that describe the biotic processes that mold community structure. Further consideration of null models in ecology and historical effects will be included. 4 lec.

#### 479 Evolution (4)

Prereq: C or better in 325. *G. Svendsen*. Current concepts of evolutionary processes: sources of

variation, agents of change, natural selection and adaptation, speciation and macroevolution. 4 lec.

#### 481 Animal Conservation Biology (4)

Prereq: perm. *M. White*. The roles of population genetics, population and community ecology, biogeography, systematics, and paleobiology in the study of biodiversity, design of nature reserves, and the recovery of endangered species. Discussion of extinction as a process, the effects of human-induced habitat degradation on loss of species diversity, and the role of reserves in protection of species. Credit not allowed for both 220 and 481. 4 lec.

#### 486A Immunology (3)

Prereq: C or better in 321. *K. Goodrum, M. Grijalva*. Fundamental principles and concepts of immunity and the immune response. 3 lec.

#### 486B Immunology Lab (2)

Prereq: 486A or concurrent. *J. Cunningham*. Immunological methods, including identification and assessment of functional activities in immune cells and molecules and applied immunological methods with antibodies in research, diagnosis, and therapy. 2 lab.

#### 489 Microbial Physiology (5)

Prereq: C or better in 321, 463 or CHEM 491. *T. Sugiyama*. Nutrition, function, and metabolism of micro-organisms; pertinent lab work illustrating fundamental principles and various experimental techniques. 3 lec, 4 lab.

#### 491 Biological Internship (2-6)

Prereq: BIOS major and perm of internship director. Practice applying biological methods in professional settings such as biomedical labs, zoos, wildlife refuges and parks, environmental monitoring labs, marine and seaworld institutes, etc.

#### 492 Topics in Zoology (1-6, max 8)

Prereq: 172, 173; 2.5 g.p.a. in BIOS courses; perm from specific professor. Individual or small-group study of specialized topics in zoology under supervision of instructor. Special registration with departmental secretary absolutely required. Graded cr only.

#### 493 Undergraduate Research (1-3, max 12)

Prereq: 20 hrs and 3.0 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required. Graded cr only.

#### 494H Undergraduate Research (1-4, max 12)

Prereq: 30 hrs and 3.2 g.p.a. in BIOS, perm from specific professor. Individualized and directed research. Students select topics or are directed into possible research areas. Special registration with departmental secretary absolutely required.

#### 495H Undergraduate Research (Thesis) (3-9, max 15)

Prereq: 494H, 40 hrs and 3.2 g.p.a. in sciences, sr. Independent departmental honors research under supervision of staff member. Student should enroll qtr he or she expects to complete thesis. Special registration with departmental secretary absolutely required.

#### 497T Tutorial Senior Thesis (1-15)

Prereq: perm. *L. Crockett*. Special courses offered to students in Honors Tutorial program.

#### 498T Tutorial Senior Thesis (1-15)

Prereq: perm. *L. Crockett*. Continuation of 497T. See 497T for description.

#### 499T Tutorial Senior Thesis (1-15)

Prereq: perm. *L. Crockett*. Continuation of 497T-498T. See 497T for description.



## Biology (BIOL)

(See also Biological Sciences and Environmental and Plant Biology.)

**101 Principles of Biology (5) (2N)**  
Designed for nonscience majors. Principles of cell biology, physiology, ecology, genetics, and evolution. No credit for 101 and either BIOS 170, PBIO 110, or PBIO 114.

## Black Studies

See African American Studies.

## Business Administration (BA)

**100A Introduction to the College of Business I (1)**

Prereq: CoB. (fall only) First of a two-part sequence. Provides information about College of Business majors, offices, and services so students are familiar with the available options. Department chairs and directors, administrators, student representatives, and various guest speakers discuss the structure and procedures of the College of Business.

**100B Introduction to the College of Business II (1)**

Prereq: 100A. Second of a two-part sequence. Provides an introduction to the business profession. Students explore various business majors as they relate to scheduling and career options. Professional development and business research skills are covered along with practical issues related to a smooth transition into the College of Business.

**101 Business and Its Environment (4)**  
Nature of business and of economic, social, and political environments of business firm. Emphasis on ways in which such surroundings affect business policies and operations.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**301 Business and Its Environment (4)**  
Prereq: jr or sr (not open to those with credit for 101). Nature of business and of economic, social, and political environments of the business firm. Emphasis on ways such surroundings affect business policies and operations.

**329 Current Global Issues in Business (4)**  
Prereq: jr or perm. Examines and compares the characteristics, market niches, and business strategies of various companies during the last four years. Taking examples from the U.S., Japan, Korea, and the other Far East countries, the course will focus upon selected business issues such as productivity, quality, the art of "managing" the businesses, the role of technology, and how to survive in the war of global competition.

**345 New Venture Creation I (4)**

Prereq: jr or sr. The focus of this two-sequence course is on the development of new business ventures rather than on the management of an existing business. The key outcome of these two courses is the development of a business plan which will be presented to local bank loan officers and/or venture capitalists to be used to raise financial capital. By the end of the first course, students are required to have identified a feasible new product or service, market potential, and competitor products. Additional topics covered are legal issues, exploring available support resources for starting a new venture, and the importance of entrepreneurship in the economy.

**350 New Venture Creation II (4)**

Prereq: 345. Continuation of 345. Students complete their business plan to local bank loan officers and/or venture capitalists to be used to raise financial capital. The focus in this course is on developing and understanding how to develop the financial projections for the plan and the accounting systems necessary to manage the start-up phase. Additional topics covered are a discussion of potential sources of financing for an entrepreneurial venture, valuation of a company, undertaking, and initial public offerings.

**370 Administrative Policy (4)**

Prereq: MGT 240, MIS 202, BUSL 255, MKT 202, FIN 325 or concurrent, OPN 310 or concurrent, and PRMC 325 or concurrent. Integrated application of core studies to nature, functions, and activities of actual business, analyzing objectives, policies, and performance in relation to outside environment.

**385 Multinational Business (4)**

Prereq: jr. Study of emergence of U.S. and non-U.S. multinational corporations, scope of their operations, and their impact on U.S. economy and consumer.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**480 Ethics and Morality in Business (4)**

Prereq: jr or sr and perm. Combined moral philosophy and personal responsibilities in business; critical analysis of contextual situation where provisional resolutions must be indirectly charted between ethical oughts and economic musts.

**497 Independent Research (1-4)**

Prereq: perm. Research in selected fields of business administration under direction of faculty member.

**498 Internship (1-4)**

Prereq: perm.

## Business Law (BUSL)

**255 Law and Society (4)**

Prereq: soph. Conceptual approach to origin, nature, structure, functions, and procedures of law, with study of ethics and introduction to constitutional, administrative, criminal, tort, contractual, international, and environmental law, as well as business organizations.

**265 Law of Contractual Relations (4)**

Prereq: 255. Legal aspects of contracts, sales, warranties, products liability, and consumer protection.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**356 Law of the Management Process (4)**

Prereq: 255, jr or perm. Conceptual framework of legal nature of organizations, particularly corporations and partnerships. rights, powers, and limits of managers in relation to duties and responsibilities to their organizations, owners, creditors, employees, customers, state, and public.

**357 Law of Commercial Transactions (4)**

Prereq: 255, jr or perm. Legal aspects of commercial paper, consumer credit, and bankruptcy.

**360 Law of Health Care (4)**

Prereq: jr or perm. Analysis of public private constraints in foundation health agencies, experimentation and risk assumption, medical records, hospital liability, and governmental regulations.

**385 International Business Law (4)**

Prereq: jr or perm. Examines the laws, organizations, and principles that impact on business transactions in the international arena. Focuses upon the importance of international business in a global economy and upon the special legal issues facing businesses, large and small, that engage in international trade, franchising, licensing, or investment.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities for participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**442 Law of Property and Real Estate (4)**

Prereq: 255 or perm. Property law as an institution and analysis of creation, transfer, and relation of various legal interests in property, especially land.

**462 Law of Estates and Trusts (4)**

Prereq: 255 or perm. Law as it pertains to decedents' estates, including law of wills, intestate succession, and trusts.

**465 Law of Sports (4)**

Regulations of amateur athletics, public regulation of sports activities, legal relationships in professional sports, enforcement of professional sports contract, liability for injuries, and antitrust aspects of sports activities.

**475 Government and Business (4)**

Prereq: 255 or perm. Governmental regulatory environment of business including analysis of statutes, court decisions, and rulings affecting policy decisions.

**491 Seminar (1-5)**

Prereq: 255 or perm. Selected topics of current interest in business law area.

**497 Independent Research (1-5)**

Prereq: perm. Research in selected fields of business law under direction of faculty member.

**498 Internship (1-4)**

Prereq: perm.

## Business Management Technology (BMT)

The following courses for the A.A.B. in business management technology are available on the Chillicothe, Lancaster, and Southern campuses. These courses are not open to students in the College of Business.

**101 Business and Its Environment (4)**

Nature of business and of economic, social, and political environments of business firms. Emphasis on ways in which such surroundings affect business policies and operations.

**110 Introduction to Management (4)**

Nature of managerial concepts, managerial functions, and organizational structure, with emphasis on current issues.

**115 Foundations of Quality and Continuous Improvement (4)**

History of the quality movement along with the current thinking and best practices for organization effectiveness. The quality of management and its responsibilities for overall effectiveness will be emphasized.

**120 Mathematics in Business (4)**

Prereq: MATH 101 or equivalent. Application of basic math to business problems. Special emphasis on compound interest, installment buying, and depreciation. Elementary applications of probabilities and statistics. Introduction to computer programs commonly used in business math applications.

**140 Concepts of Marketing (4)**

Introduction to problems of manufacturers, whole salers, and retailers as they relate to modern marketing, market, and product

**150 Elements of Supervision (4)**

Concepts of modern-day supervision. Emphasis on supervisor's major functions and development of sensitivity to human facets in management, using behavioral science findings.

**170 Small Business Operations (4)**

Includes preparation of student for selection and operation of small business. Balanced program of all major aspects confronting small business operator, including finance, personnel, sales, and success and failure factors.

**189 Independent Study (1–5, max 5)**

Projects concerning business technology explored with instructor in teams or one-to-one. Studies selected in subject areas in business field.

**200 Introduction to Business Computing (4)**

Focuses on PC-based applications used in business and industry, such as word processing, spreadsheets, databases, and presentation packages. Computer lab setting.

**203 Business Career Profiles (3)**

Practical approach to better understanding by students of what is expected of them by management and what they can expect from management on any job or in any working situation by achieving a better grasp of the various activities and institutions found in the business community.

**210 Managing Finance in Business (4)**

Prereq: ATCH 103, or ACCT 101 and 102. Introduction to basic concepts, principles, and analytical techniques of financing. Emphasis on planning and managing assets.

**220 Concepts of Purchasing Management (4)**

Analysis of purchasing operation's structure and procedure. Descriptions of quality, quantity, value analysis, sources of supply, and procurement controls. Vendor/buyer relationships, make-or-buy decisions, inventory control, buyer training, materials handling, records, and budgets.

**230 Concepts of Sales (4)**

Policies and procedures pertaining to planning sales effort and control of sales operations. Personality development and role of selling in society, careers, and psychology and philosophy as related to selling.

**240 Concepts of Audience Analysis (3)**

Prereq: not open to College of Business majors. Development of knowledge of behavior content of marketing in consumer fields. Examination of applicable theory and research findings and concepts provided by psychology, sociology, anthropology, and marketing. Stress on conceptual models of buyer behavior based on sources of influence.

**250 Practical Personnel Procedures (4)**

Hiring, training, assignment of work, employee counseling, promotion, wage and salary administration. Leadership, motivation, and direction of employees toward management/employee-oriented goals.

**260 Business Report Writing (4)**

Prereq: Tier I ENG; not open to College of Business majors. Practice in planning and writing effective business letters, memoranda, and reports.

**270 Advertising Concepts (4)**

General course in advertising which emphasizes psychology, advertising agency, media research, brands, and labels.

**275 Managerial Planning (4)**

Prereq: CTCH 125, CS 120, or OTEC 226. In-depth coverage of the planning process with emphasis on strategic planning. The case study approach is employed to develop skill in complex and difficult decision making. Applications in management science to assist in the decision process are covered.

**280 Concepts of Labor and Management Relations (4)**

A broad overview of micro and macroeconomic theory as applied to the labor factor of production; the many problems related to the full utilization of human resources and government policies addressing these problems; the effects of unionism and labor-management relations including collective bargaining.

**285 Government and Business (4)**

Business and government relations, with emphasis on analysis of selected areas involving public policy and business.

**288 Computer Applications for Management (4)**

Prereq: 275. Utilizes integrated software package skills acquired in 200 and in comprehensive case-studies approach in business. Spreadsheet, data base management, word processing, and graphics applications used to create comprehensive business report that ties together overall curriculum.

**289 Special Topics (1–5, max 5)**

Advanced projects concerning business technology explored with instructor in teams or one-to-one. For advanced students only.

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**Chemistry (CHEM)**
**100D Peer-Led Team Learning Laboratory for Chem 151 (1)**

Co-registration with Chem 151. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**100E Peer-Led Team Learning Laboratory for Chem 152 (1)**

Co-registration with Chem 152. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**100F Peer-Led Team Learning Laboratory for Chem 153 (1)**

Co-registration with Chem 153. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**100L Peer-Led Team Learning Laboratory for Chem 305 (1)**

Co-registration with Chem 305. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**100M Peer-Led Team Learning Laboratory for Chem 306 (1)**

Co-registration with Chem 306. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**100D Peer-Led Team Learning Laboratory for Chem 307 (1)**

Co-registration with Chem 307. Content appropriate discussion and problem solving conducted by a peer mentor in a small group setting. Credit applies as hours toward graduation but meets no other college requirement.

**101 Chemistry Applied to Today's World (4) (2A)**

(spring) Designed for nonscience majors with little or no previous experience with chemistry. Applications of basic principles of chemistry to real world situations. Instruction will include multimedia and small group activities. 4 lec.

**115 Preparation for College Chemistry (2)**

Prereq: fr only, or perm. For students who have not had high school chemistry or have had inadequate preparation to enter regular chemistry sequence. Material presented includes metric system, atomic and molecular structure, formulas, equations, states of matter, and problem solving. Will not satisfy any part of natural sciences requirement of College of Arts and Sciences. 2 lec.

**121 Principles of Chemistry I (4) (2N)**

(fall, winter) Introduction to chemistry through study of atomic and molecular structure, periodic table, and states of matter. Recommended for students in College of Education (except B.S.Ed. majors in biological science, chemistry, and physics), and other programs requiring only 1 yr of chemistry. Credit not allowed for both 121 and 151. 3 lec, 3 lab.

**122 Principles of Chemistry II (4) (2N)**

Prereq: C– or better in 121, or 151. (winter, spring) Introduction to gases, solutions, acids, bases, and concept of equilibrium. Credit not allowed for both 122 and 152. 3 lec, 3 lab.

**123 Principles of Chemistry III (4) (2N)**

Prereq: 122 or 152 or perm. (spring, fall) Designed to survey organic chemistry and biochemistry and their impact upon daily existence. 3 lec, 3 lab.

**151 Fundamentals of Chemistry I (5) (2N)**

Prereq: MATH 113 or placement Level 2 or higher; passing score on chemistry placement exam. (fall, winter, summer) General course in fundamental chemical principles. Atomic structure, periodic classification, bonding, mole concept, and stoichiometry with problem solving. Recommended for majors in chemistry, engineering, biological sciences, plant biology, clinical laboratory science, geological sciences, secondary education (B.S.Ed. in biological sciences, chemistry, and physics), and preprofessional (biological science) areas. Credit not allowed for both 121 and 151. 4 lec, 3 lab.

**152 Fundamentals of Chemistry II (5) (2N)**

Prereq: C– or better in 151 or perm. (winter, spring, summer) States of matter, solutions, kinetics, acids, bases, and chemical equilibrium with problem solving. Credit not allowed for both 122 and 152. 4 lec, 3 lab.

**153 Fundamentals of Chemistry III (5) (2N)**

Prereq: 152 or perm. (fall, spring) Introduction to titrations, buffers, thermodynamics, and redox. Study of the chemistry of transition metals and selected representative elements. Introduction to nuclear and radiochemistry. Lab includes qualitative analysis. 4 lec, 3 lab.

**241 Quantitative Analysis (4)**

Prereq: 153 and concurrent with 242. (fall) Introduction to quantitative techniques that include volumetric, gravimetric methods of analysis, and spreadsheet calculations. MS Excel for modeling and problem solving. Concurrent registration in 242 required. 4 lec.

**242 Quantitative Analysis Laboratory (1)**

Prereq: 241 or with 241. (fall) Laboratory work to accompany 241. Concurrent registration in 241 required. 3 lab.

**301 Organic Chemistry (3)\***

Prereq: 123 or 153, or concurrent. (winter, summer) Designed for students who are not B.S. chemistry majors and who do not require a full-year course in organic chemistry.

**302 Organic Chemistry (3)\***

Prereq: 301. (spring, summer) Continuation of 301. See 301 for description.

**303 Organic Chemistry Laboratory (2)\***

Prereq: 301 or 305, or concurrent. (fall, winter, spring) Designed for students who are not B.S. chemistry majors. 1 lec, 2 lab.



**304 Organic Chemistry Laboratory (3)\***

Prereq: 303; 302 or 307, or concurrent. (fall, winter, spring) Continuation of 303. See 303 for description. 6 lab.

**305 Organic Chemistry (3)\***

Prereq: 153 or with 153 or perm. (fall, summer) Organic chemistry for chemistry majors and other students wishing to acquire sound knowledge of classical and modern organic chemistry.

**306 Organic Chemistry (3)\***

Prereq: 305. (winter, summer) Continuation of 305. See 305 for description.

**307 Organic Chemistry (3)\***

Prereq: 306. (fall, spring) Continuation of 305–306. See 305 for description.

**308 Organic Chemistry Laboratory (3)\***

Prereq: 306, or concurrent; major or perm. (winter) Emphasis on microscale synthesis, purification, and characterization of organic compounds. Designed for B.S. chemistry majors. 6 lab.

**309 Organic Chemistry Laboratory (3)\***

Prereq: 308 and 307 or with 307. (spring) Continuation of 308. See 308 for description.

**325 Instrumental Methods of Analysis (4)**

Prereq: 241 and 242. (winter) Survey of instrumental methods in chemical analysis. 3 lec, 3 lab.

**345 Chemistry of Photography (4)**

Prereq: 122 or 152 and ART 192. Basic chemistry of modern and historical photographic and photomechanical materials and processes. 2 lec, 4 lab.

**351 Physical Chemistry (4)**

Prereq: MATH 163B or 263B, or perm and 153 (fall) For premedicine, B.S.Ed., B.S.I.H., and A.B. chemistry majors. Topics include thermodynamics, thermochemistry, equilibrium, solutions, and kinetics.

**376 Fundamentals of Inorganic Chemistry (3)**

Prereq: 153. (winter) Inorganic topics related to structure, bonding, redox, HSAB and descriptive main group/transition metal chemistry, including complexes/organometallics. 3 lec.

**400A Advanced Organic Laboratory (2)**

Prereq: 307, 309. (spring) Advanced organic lab techniques and instrumentation. 1 lec, 6 lab.

**400B Advanced Inorganic Laboratory (2)**

Prereq: 476. (winter) Advanced inorganic laboratory synthesis and techniques. Individual projects. 1 lec, 6 lab.

**420 Chemical Literature (3)**

Prereq: 24 hrs. Instruction in use of chemical literature and application to scientific writing.

**431 Chemical Separation Methods (3)**

Prereq: C- or better in 241, and 351 or 453, or concurrent. (winter) Modern methods of separating components of complex mixtures with emphasis on operation and application to analytical chemistry. Topics include liquid-liquid extractions, partition chromatography, ion-exchange, gas chromatography, high pressure liquid chromatography, exclusion chromatography, and electrophoresis. Concurrent registration in 434 required for initial enrollment. 3 lec.

**432 Chemical Instrumentation and Electrochemistry (3)**

Prereq: C- or better in 241, and 351 or 453, or concurrent. (spring) Modern electrochemical techniques and instrumentation with emphasis on their applications in analytical chemistry. Topics include potentiometry, specific ion electrodes, DC and AC polarography, pulse polarography, coulometry, chronocoulometry, cyclic voltammetry, and rapid scan voltammetry. Concurrent registration in 435 required for initial enrollment. 3 lec.

**433 Spectrochemical Analysis (3)**

Prereq: C- or better in 241; and 351 or 453, or concurrent. (fall) Survey of spectrochemical instrumentation with emphasis on their operation and applications in analytical chemistry. Topics include atomic absorption, atomic emission, molecular absorption and molecular emission and will cover emission-absorption phenomena in the X-ray, ultraviolet, visible, and infrared regions of electromagnetic spectrum. Concurrent registration in 436 required for initial enrollment. 3 lec.

**434 Chemical Separation Methods Laboratory (1)**

Prereq: 431 or concurrent. (winter) Laboratory work to accompany 431. 3 lab.

**435 Chemical Instrumentation and Electrochemistry Laboratory (1)**

Prereq: 432 or concurrent. (spring) Laboratory work to accompany 432. 3 lab.

**436 Spectrochemical Analysis Laboratory (2)**

Prereq: 433 or concurrent. (fall) Laboratory work to accompany 433. 4 lab.

**453 Physical Chemistry (3)**

Prereq: 153, MATH 263D or concurrent, PHYS 253. (fall) Calculus based study of thermodynamics with applications to chemical equilibria.

**454 Physical Chemistry (3)**

Prereq: 453. (winter) Continuation of 453. Thermodynamics of mixtures, phase diagrams, chemical equilibrium, ionic solutions, and chemical kinetics.

**455 Physical Chemistry (3)**

Prereq: 454. (spring) Continuation of 454. Quantum theory with applications to simple systems which model the electronic structure of atoms and molecules.

**456 Physical Chemistry Laboratory (3)**

Prereq: 351 or 453. Experimental determination of molecular weights, ionic velocities, composition of azeotropes and complex ions, equilibrium constants, phase rule diagrams, and vibrational and rotational constants for HCl, DCl. Instrumental procedures include refractometry, polarimetry, viscometry, and infrared spectroscopy. 6 lab.

**457 Physical Chemistry Laboratory (3)**

Prereq: 456. Continuation of 456. 6 lab.

**458 Chemical Thermodynamics (3)**

Prereq: 455. (spring) Concepts of energy and entropy and their use in predicting feasibility and extent of chemical reactions.

**459 Physical Chemistry (3)**

Prereq: 454. (spring) continuation of 454. Topics include surfaces, solids, electrical conduction and transport properties, and polymers.

**460 Spectroscopic Methods in Organic Chemistry (3)**

Prereq: 302 or 307. (winter) Modern spectroscopic methods as employed in organic chemical research: NMR, IR, mass spectrometry, and UV.

**471 The Physical Chemistry of Macromolecules (3)**

Prereq: 454. Effects of structure and molecular weight on physical and chemical properties of macromolecules. Topics include molecular weight distribution, solubility, polymer conformation, different types of polymers, synthesis, and reactions. Both synthetic and natural polymers considered.

**476 Modern Inorganic Chemistry (4)**

Prereq: 351 or 453 or with 351 or 453. (fall) Considers relationship between physical and chemical properties of inorganic substances and nature of bonding and structures involved. 4 lec.

**479 Radiochemistry (4)**

Prereq: 153. Applications of isotopes to problems in chemistry, safe handling of radioactive material, detection and determination of radiation. 2 lec, 4 lab.

**480 Advanced Organic Chemistry (4)**

Prereq: perm. (fall) Structural theory, stereochemistry, reactive intermediates, and reaction mechanisms.

**485 Introduction to Toxicology (4)**

Prereq: CHEM 489 or 490. Introduction to chemical, clinical, environmental, and forensic aspects of toxicology, types of poisons, how poisons act, treatment of acute poisoning, and control of poisonous materials.

**487A Forensic Chemistry (3)**

Prereq: C or better in 431 and 433. Surveys chemical problems most frequently encountered in crime labs and their currently acceptable solutions, as well as special techniques not covered in other analytical chemistry courses. 3 lec.

**487B Forensic Chemistry (3)**

Prereq: 487A or concurrent. Laboratory work to accompany 487A. 3 lab.

**488A Special Topics in Forensic Science I (3)**

Prereq: Forensic Chemistry major and jr or sr. Survey topics, which are not included in CHEM 487 or law enforcement technology (LET) courses, relevant to the modern crime lab. These topics will be focused on arson analysis and explosive analysis. Other topics such as toolmark/document identification, forensic entomology, and forensic photography will also be included.

**488C Forensic DNA Analysis (3)**

Prereq: 489 or 490 or concurrent. Survey of techniques and instrumentation used in the identification, extraction, and analysis of DNA obtained from forensic evidence. Topics include the identification and extraction of blood stains, DNA analysis by restriction fragment length polymorphisms, PCR amplified length and sequence polymorphisms, STR systems, and mitochondrial DNA sequencing. Electrophoretic techniques and statistical interpretation of data will also be covered.

**489 Basic Biochemistry (4)**

Prereq: 302 or 307 or perm. (fall) Survey course, including introduction to biochemical concepts and techniques, metabolic pathways, and information storage and transmission, with emphasis on directions of current biochemical research.

**490 General Biochemistry I (4)**

Prereq: 307. (fall) Macromolecular structure of biomolecules.

**491 General Biochemistry II (3)**

Prereq: 490. (winter) Bioenergetics, metabolism, and metabolic control systems. Physical chemistry recommended.

**492 General Biochemistry III (3)**

Prereq: 491. (spring) Complex integrated biochemical systems.

**493 Biochemical Techniques (3)**

Prereq: 490; biochemistry major or perm. (winter) Laboratory course using modern biochemical and molecular biology techniques including electrophoresis, chromatography, and enzyme kinetics. 6 lab.

**494 Biochemical Research (1–5)**

Prereq: perm. (fall, winter, spring) Independent work in a biochemistry laboratory. Students will be assigned a research project which will use various biochemical research techniques. Students may enroll one or more quarters. 2–10 lab.

**497 Forensic Chemistry Internship (3–10)**

Prereq: sr in Forensic Chemistry Program and perm. Supervised work in approved forensic science lab to gain practical experience. Oral and written reports required.

**499 Undergraduate Research (1–5)**

Prereq: jr or sr with 2.75 g.p.a. in chemistry courses and perm of department chair. Independent work for qualified upperclass majors in chemistry and related areas. Student may enroll one or more quarters.

\*Credit is not allowed for both sequences of organic chemistry courses—301–302–303–304 and 305–306–307–308–309. Transfer from the middle of one sequence to the other may be possible, but is permitted only upon approval of the faculty in the courses involved.

## Chinese

See Foreign Languages and Literatures.

## Classics and World Religions (CLAR/CLAS/CLWR)

### Classical Archaeology (CLAR)

#### 211 Greek Archaeology (4) (2S)

Provides an introduction to Greek society as known from archaeology; covers the period from the Minoan and Mycenaean Bronze Age to Hellenistic times. Topics include the initial development of civilization in Greece and its rebirth after the Dark Ages, the continuing interchange of ideas between the Near East and Greece, the development of architectural styles and building complexes, and the role of public art in the propaganda of a city. Emphasis is on the use of archaeology to interpret the social development of the Greeks.

#### 212 Roman Archaeology (4) (2S)

Traces the development of one ethnic group, the Romans, in their appropriation and transformation of various native, Etruscan, and Greek artistic styles. Focuses on the different social, political, and artistic influences that contributed to the continuous change and development of Roman material culture, and emphasizes the Roman ability to adapt and innovate. Topics include the nature of Greek influence on Italian culture, the development of a characteristic Roman architecture, archaeological evidence for the economy, the development of public and private art styles, and the Roman provinces.

#### 213 Near Eastern and Egyptian Archaeology (4) (2S)

Survey course tracing the initial development of complex urban states in Mesopotamia, Syro-Palestine, Anatolia, and Egypt from the Late Neolithic into the Early Bronze Age, and their increasing influence on each other from the Middle through the Late Bronze Age and into the Iron Age. Presents the main elements of society, art, and architecture in these major Near Eastern cultures. Topics include the role of religion in the early states, the rise of the absolute ruler, trade networks, and the growth of the Egyptian and Hittite empires.

#### 352X Ancient Rome: Development of the City from the 8th Century B.C. to the 4th Century A.D. (4)

Prereq: Any LAT course or CLAS 254 or CLAR 212 or HIST 329B. An introduction to the urban development of ancient Rome through an intensive on-site examination of its monuments and artifacts. The focus is on field work. While Rome is the focus of the course, several days are also spent at Ostia and Pompeii to highlight aspects of Roman life not readily observable in modern Rome.

#### 361 Greek Cities and Sanctuaries (4)

Historical overview of the evolution of the ancient Greek city and of the principal Greek religious sanctuaries, followed by a detailed introduction to the topography and monuments of representative sites.

#### 362 The Archaeology of Roman Cities (4)

An archaeological study of Rome and other Roman cities from the 8th century B.C. to the fall of the Roman empire. Particular emphasis is placed on the physical remains as products of and evidence for the changing cultural and political concepts that constantly revised the design and composition of Roman cities.

#### 363 Aegean Archaeology (4)

Uses archaeological evidence and methods to trace the development of the three main Aegean civilizations—Minoan, Cycladic, and Mycenaean—from the appearance of the first agricultural communities in the Neolithic period (6000 B.C.) to the widespread destruction and subsequent economic decline at the end of the Bronze Age (1100 B.C.). Focuses on the archaeological evidence for state formations and the internal factors and external influences that shaped the palace complexes on Crete and in Greece.

#### 364 Craft and Technology in the Roman World (4)

The purpose of this course is to introduce students to the ways in which different types of ancient objects were created. We examine the tools and processes used to create objects of iron, bronze, marble, glass, and terracotta. Various types of modern analysis also are discussed to show how advances in technology affect our understanding of the ancient world. A larger goal of the course is to impart a better understanding of the relationship between the development of technology and political/economic changes in connection with changing attitudes and desires of the Roman people in different parts of the Roman Empire.

#### 451 Mycenaean Society (4)

Examines Mycenaean society primarily from the information in Mycenaean texts including original Linear B texts, put into perspective through the use of archaeological material. Examines the development and use of scripts in the Aegean to record different aspects of the palace economy. Topics include the social structure within and outside the palaces, agriculture, craft production, trade, the demise of the palace economic system, and the relevance of the Homeric poems to our understanding of Mycenaean society. (No linguistic prerequisite.)

### Classics in English (CLAS)

The lectures and readings for these courses are in English, and the courses may count as part of the humanities area requirement of the College of Arts and Sciences. These courses cannot count as part of the foreign language requirement of the College of Arts and Sciences.

#### 127 Greek and Latin Words in English (4) (2H)

General and technical vocabulary derived from Greek and Latin. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

#### 227 Greek and Latin Roots in Biomedical Terminology (4)

This course teaches students a vast number of Greek and Latin linguistic elements (bases, prefixes, suffixes, etc.) and basic linguistic principles useful to anticipating meanings of biomedical terminology via etymology.

#### 231 Human Aspirations Among the Greeks and Romans (4) (2H)

A study of the hopes and goals that shaped the lives of individuals and societies in the ancient Western tradition. Topics include financial success, respect, pleasure, wisdom, national well-being, and salvation of the soul. Involves extensive reading of Greek and Latin literature in English translation.

#### 234 Classical Mythology (4) (2H)

Introduction to classical mythology; readings and discussions of myths and their interpretations. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

#### 235 Classics in Translation (4) (2H)

Reading of Greek and Latin literature in English translation. May be counted as part of requirements for humanities of College of Arts and Sciences. No knowledge of Greek or Latin required. No credit toward meeting foreign language requirement.

#### 236 Classics in Translation (4) (2H)

Continuation of 235.

#### 237 Classics in Translation (4) (2H)

Continuation of 236.

#### 252 Classical Athens (4) (2H)

Study of classical Athens as the city and its people are known to us from the written texts and archaeological remains of the period.

#### 253 Alexander the Great and the Hellenistic World (4) (2H)

An interdisciplinary approach to life and thought in the Hellenistic world from the conquests of Alexander the Great to ascendancy of Rome in the eastern Mediterranean (fourth to first centuries B.C.). The course content is based on archaeological, historical, and literary sources.

#### 254 Rome under the Caesars (4) (2H)

An interdisciplinary approach to life and thought in Rome from the reigns of Augustus through Marcus Aurelius (27B.C.-AD180) based on archaeological, historical, and literary sources.

#### 255 Pagan to Christian in Late Antiquity (4) (2H)

An interdisciplinary approach to the dramatic changes that occur in ways of looking at the individual and his place in the world during the 4th through 6th centuries of our era as paganism is replaced by Christianity as the dominant religious view. The geographical foci are Rome and Constantinople. The sources are textual, artistic, and archaeological.

#### 301 Love in Antiquity (4)

Reading and discussion of major literary and philosophical treatments of love in Greco-Roman tradition. All readings are in English translation. No knowledge of Greek or Latin required.

#### 311 Gods and Heroes in Greek Epic (4)

A survey of the history, literature, and values of the Greek Heroic period: Mycenaean heroes (Achilles, Agamemnon, Ajax, Odysseus, Jason, etc.), and the Epic tradition (Homer, Hesiod, Apollonius) who passed on their stories to later generations of Greeks.

#### 312 Greek Tragedy (4)

A survey of Greek tragedy in English translation: extensive reading from Aeschylus, Sophocles, and Euripides. Study of the historical and cultural setting and the literary aspect of the plays.

#### 313 Greek Sophists and Orators (4)

An introduction to the new modes of oratory and argumentation which flourished in the context of 5th-century B.C. Greek democracy.

#### 343 Women in the Ancient Mediterranean (4)

Prereq: soph or WS 100. Survey of aspects of women's lives in ancient Greece, Rome, Egypt, and Mesopotamia based upon textual and archaeological material, with an emphasis upon the cultural biases inherent in the sources.

#### 351X On-Site Survey of Greek History (4)

A survey of Greek history from Mycenaean to modern times, with particular attention to sites on the itinerary of the study abroad program in Greece.

#### 391 Colloquium in Classics

A bi-weekly colloquium featuring: 1) presentations by faculty members on the different disciplines included in the study of the ancient world, 2) presentations by faculty of aspects of their own research, 3) presentations by seniors of their research, 4) meetings with visiting scholars. Prerequisites: Classics major, sophomore status or higher, or by permission.

#### 401 Life of the Romans (4)

An examination of Roman life from a number of perspectives emphasizing the Roman family, sexual attitudes, slavery, and the economy. Attention given to the means by which classicists draw conclusions about ancient Roman life and social attitudes.

- 498 Independent Study in Classical Literature (1-8, max 8)**  
Prereq: perm. Directed individual reading and research.

### World Religions (CLWR)

- 181 Introduction to Religion (4) (2H)**  
Definition of religion and analysis of its various aspects including ritual, social, experiential, and symbolic.

- 301 Old Testament (5) (2H)**  
Background and development of Old Testament; its philosophical, moral, and religious significance.

- 302 New Testament (5) (2H)**  
Background and development of New Testament; philosophical, moral, and religious significance of beliefs of Jesus, Paul, and early Church.

- 305 Asceticism: Virgins, Monks and Hermits (4)**

Prereq: soph. Examination of asceticism—the rejection of physical pleasure and material wealth—as philosophical and religious ideal in pagan and Christian communities in the world. This course will focus on reading ancient texts in translation.

- 311 Islam (4) (2C)**  
Introduction to basic ideas, history, and background.

- 321 Hinduism (4) (2C)**  
Vedic religion, Hinduism, Jainism.

- 331 Buddhism (4) (2C)**  
Introduction to doctrines, origins, and varieties.

- 341 Taoism (5)**  
Prereq: jr or perm. A historical survey of philosophical and religious Taoism from the 3rd century B.C. to the 18th century.

- 361 American Religions (4)**  
Prereq: jr. (on demand) Christianity, Judaism, and other religions and developments in U.S.

- 385J Writing on Religion (4) (1J)**  
Prereq: first year comp, 181, jr. or perm. Study of vocabulary and communication problems in written description and analysis of religious phenomena. Writing projects in various styles, from reports of personal experience to scholarly research.

- 442 Confucianism (4)**  
Prereq: 3 courses CLWR. Examination of the texts associated with Confucius and their history, including religious, social, and intellectual aspects.

- 471 African Religions (4)**  
Prereq: 3 courses CLWP. Study of the worldviews of African traditional cultures expressed in myths, art, beliefs, and practices.

- 481 Myth and Symbolism (5)**  
Prereq: 3 CLWR courses. Characteristic expressions of thought in primitive societies and theories concerning primitive mentality.

- 482 Thinking About Death (4)**  
Prereq: 3 CLWP courses. Survey and analysis of human thought and practice regarding death.

- 483 Contemporary Religious Thought (5)**  
Prereq: 3 CLWP courses. Representative thinkers such as Tillich, Buber, and others.

- 490 Senior Research (2)**  
Prereq: senior. Research on a selected topic in World Religions.

- 491 Senior Research Writing (4)**  
Prereq: CLWP 490. Writing a scholarly paper based on research in World Religions.

- 498 Independent Study (1-8)**  
Directed, individual reading and research for students who wish to study an area of World Religions not covered by a regular course.

## Communication Studies (COMS)

- 101 Fundamentals of Human Communication (4) (2H)**

Introductory analysis of oral communication in human relationships with focus on variety of contexts including dyadic, small group, and public communication experiences. Serves as survey of human communication processes. Mass lec.

- 103 Fundamentals of Public Speaking (4)**  
Principles of public speaking, practice in presenting informative and persuasive speeches with emphasis on communicative process.

- 104 Listening (4)**  
Improvement of listening skills through intensive practice.

- 110 Communication Between Cultures (4)**  
The purpose of the course is to explore the role of communication in understanding, accepting, and appreciating cultural differences. Students in this course will understand that culture includes not only issues of nationality, ethnicity, and race, but also gender, socioeconomic status, age, etc. Using a number of co-cultural, cross-cultural, and intercultural examples, students will explore how communication is a key component of bridging cultural differences.

- 117 Beginning Forensics (1-3, max 9)**  
Students prepare for competition in oral interpretation, public speaking, and/or debate as part of the Ohio University Forensics Team. Travel to a weekend tournament at another university is required to earn credit. Number of credits depends upon number of performances prepared for competition.

- 205 Techniques of Group Discussion (4)**  
Study of structure and dynamics of small groups, nature and functions of leadership, group participation, problem solving, and decision making; frequent participation in group discussion activities.

- 206 Communication in Interpersonal Relationships (4)**  
Provides maximum experience in study of communication in social interaction. Exploration of communication variables, and skill development in message generation in one-to-one informal settings.

- 215 Argumentative Analysis and Advocacy (4)**  
Prereq: C or better in 103. Basic principles of argumentative discourse including concepts of presumption, burden of proof, rhetorical forms of reasoning, and evidence. Practice in applying these principles.

- 217 Advanced Forensics (1-3, max 12)**  
Prereq: 117 or perm. Students prepare for competition in one or more individual events and/or debate as part of the Ohio University Forensics Team. Attendance at tournaments is expected.

- 220 Oral Interpretation of Literature (4)**  
Techniques of oral interpretation and development of adequate intellectual and emotional responsiveness to meaning of literature.

- 235 Introduction to Communication Theory (4)**  
Prereq: COTA or perm, 45 hrs, no credit 234 or 250. To identify the purposes, history, and application of key social and rhetorical theories of communication through reading and discussing classic works of communication theory. To understand issues of epistemology, ontology, and axiology when discussing the goals and methods related to relevant theories.

- 240 Introduction to Health Communication (4)**  
Prereq: C or better in 235. Concerned with issues in the theory and practice of health communication. Topics include provider-patient communication, organizational communication in health care delivery systems, communication in community/consumer health education, information technologies in health communication, communication in support systems for the elderly, disabled, and terminally ill, and communication training for health care professionals.

- 245 Introduction to Organizational Communication (4)**  
Prereq: C or better in 235. Analysis of traditional and contemporary theories of communication in context of modern complex organizations (government, industry, education, etc.). Consideration and explication of such pertinent concepts and variables as message, channel, networks, information, information flow, communication climate, communication audit, etc.

- 260 Introduction to Communication in Public Advocacy (4)**  
Prereq: C or better in 235. To introduce students to the theoretical, philosophical, and methodological influences integral to legal and political communication research. To aid in the development of students' understanding of those sources through readings, class discussions, writing assignments, examinations, and presentations. To provide a theoretical and technical vocabulary of legal and political communication research that will establish a foundation for successful advancement in the major.

- 297T Communication Studies Tutorial (1-15)**  
Prereq: Honors Tutorial College and perm.

- 298T Communication Studies Tutorial (1-15)**  
Prereq: Honors Tutorial College and perm.

- 299T Communication Studies Tutorial (1-15)**  
Prereq: Honors Tutorial College and perm.

- 300 Field Research Methods in Communication (4)**  
Prereq: jr., C or better in 235. Discussion and application of communication data collection methods such as content analysis, participant observation, Q-analysis, questionnaire design, sampling procedures, case studies, and unobtrusive measures.

- 301 Empirical Research Applications in Communication (4)**  
Prereq: C or better in 235; MATH 113 or higher; no credit if PSY 221 or QBA 201 or MATH 251. Provides undergraduates with principles and basic skills necessary to criticize research literature; develops minimal proficiencies in structuring designs basic to descriptive and experimental studies, including data collection, analysis, and presentation techniques in communication research.

- 303 Rhetorical Analysis and Criticism (4)**  
Prereq: C or better in 235. Studies the approaches and methods of modern rhetorical critics. Emphasizes research and writing skills for a critical evaluation of rhetorical artifacts.

- 304 Principles and Techniques of Interviewing (4)**  
Prereq: jr. Methods used in two-party, face-to-face oral communicative situations commonly encountered in organizational and professional environments. Intensive practice through role playing and real life interviews in and out of class, emphasizing skills involved in giving and getting information, persuasion, and job employment situations.

- 306 Interpersonal Conflict Management (4)**  
Prereq: jr. Analysis of the communication dynamics involved in managing interpersonal and

organizational conflicts. Examination of theory and research related to conflict management. Emphasis on case studies and role-playing conflicts in various interpersonal and group settings.

### 310 Information Diffusion (4)

Prereq: 240. This course provides an understanding of information diffusion theory, which seeks to explain the process through which new ideas (innovations) spread over time via communication channels among the members of a social system. It especially emphasizes the relevance, practicality, and usefulness of diffusion theory in interpersonal, group, organizational, and mass communication settings, with an emphasis in areas of public education, health, and policy. The course focuses on factors that speed or hinder innovations and the critical points of interface between information dissemination systems and end users.

### 315 Advanced Argument and Debate (4)

Prereq: jr or sr; C or better in 215. Purpose of course is to familiarize student with argumentation, rhetoric, and communication skills used in legal process. Advanced argumentation and debate course with legal issues used as basis for arguments.

### 320 Women and Health Communication (4)

Prereq: 240. This course focuses on the unique communication issues for women in health-related settings. Topics include the accomplishment of relational, informational, and medical goals for women health care seekers, as well as the challenges of offering and seeking social support in contemporary society.

### 342 Communication and Persuasion (4)

Prereq: jr. Process of communication and attitude change, survey of general theories and typical research, and analysis of contemporary persuasion problems.

### 345 Advanced Organizational Communication (4)

Prereq: 245. This course builds upon and extends the conceptual foundations of organizational communication through analysis and critical examination. Students will read, discuss, and write about advances in contemporary organizational communication thought, practices, and research orientations.

### 351 Courtroom Rhetoric (4) (25)

Prereq: C or better in 235. Famous cases and methods of communication of masters of courtroom and judicial oratory. Cases, trials including Cicero, Strafford, Charles I, Erskine, Hastings, Marshall, Webster, Darrow, Sacco-Vanzetti.

### 352 Political Rhetoric (4) (25)

Prereq: C or better in 235. Rhetorical techniques found in political discourse are examined. Topics covered include symbolic politics, the place of myth in politics, and the political elements of film, literature, and television.

### 353 Contemporary Culture and Rhetoric (4) (25)

Prereq: C or better in 235. Explores the relationship between rhetoric and contemporary culture. Contemporary theories of rhetoric are examined and used to study communication in contemporary cultural issues. Issues involving identity and power, in particular, will be discussed.

### 397T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

### 398T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

### 399T Communication Studies Tutorial (1-15)

Prereq: Honors Tutorial College and perm.

### 403 Advanced Presentations (4)

Prereq: mjr; 90 hrs; C or better in 103. This course will build on the knowledge and skills developed in COMS 103. Students will learn how to make presentations that require extensive research, longer presentation times, and/or adaptation to diverse audiences. Particular attention will be given to developing competence with presentation technology.

### 405 Meeting and Conference Planning (4)

Prereq: jr, C or better in 205. Theoretical and methodological approaches to principles of group and conference leadership. Emphasis on leadership methods and skills as they apply to group and conference situations.

### 406 Advanced Interpersonal Communication (4)

Prereq: C or better in 206. An examination of communication theories relevant to the study of interpersonal communication. Attention will be given to communication involved in initiating, developing, maintaining, repairing, and disengaging from interpersonal relationships.

### 410 Cross-Cultural Communication (4)

Prereq: jr. Analysis of processes and problems of communication as affected by national cultures; effects of differences in language, values, meaning, perception, and thought.

### 411 Communicating with People with Disabilities (4)

Examines the implications of communication between the physically disabled and able-bodied individuals/groups. The course utilizes simulated exercises, video presentations, field trips, and outside guest lecturers to give the student reasonable exposure to the disabled community.

### 420 Gender and Communication (4)

Prereq: 101 or C or better in 206. Explores variations in communicative behaviors related to biological sex and psychological gender. Examines female and male communication in intrapersonal, interpersonal, small group, public, and organizational settings.

### 421 Instructional Training and Development in Communication (4)

Prereq: 234 or C or better in 235. Provides upper-level undergraduates with opportunity to learn how to design instructional training programs beginning with the needs assessment and continuing through the evaluation phase. Combination of lecture/ discussion and student presentations.

### 422 Communication in the Family (4)

Prereq: 101 or C or better in 206, jr. Examination of the communication concepts basic to understanding interaction in the family. Provides a framework for analysis of family communication. Explores communication issues that relate to family interaction, including conflict, power, intimacy, and the development of relationships. Presents a model of effective communication in the family. Consideration of verbal and nonverbal communication behaviors.

### 430 Communication and the Campaign (4)

Prereq: 342. Theory and practice of persuasion and management in campaign situations (political, religious, information, fundraising, advertising, etc.). Students may participate in local, state, or national campaigns, or do an in-depth research paper.

### 442 Responsibilities and Freedom of Speech in Communication (4)

Prereq: jr. Ethical and rhetorical implications of constitutional guarantees on political, social, and religious speech; analysis of effects of famous legal cases on freedom of speech.

### 445 Practicum in Communication (4)

Prereq: sr; mjr; 240, 245, or 260; Students assume roles in an internal real-to-life organization and engage in a consulting or training project with actual client. Opportunity to apply theories and skills developed in major.

### 448 Rhetoric and Electronic Media (4)

Prereq: jr. This course examines meaning-making via the electronic symbol, verbal and graphic. Classes will alternate between the analyses of theory and close examination of radio, hypertext (online via the World Wide Web and stored on CD-ROM), e-mail, word processing, and television—especially in contrast to print and speech.

### 450 Capstone Seminar in Communication (4)

Prereq: mjr; sr. This course presents a seminar treatment of current or topical interest in communication studies. The topic will vary with instructor expertise and research interests. During the seminar, students will synthesize and integrate concepts from multiple areas of communication.

### 470/570 Effective Classroom Communication for Teachers and Trainers (4/5)

Course focuses on interpersonal communication in classroom environment, with particular emphasis on communication between students and teachers. Taught in intensive format only during summer session.

### 471/571 Nonverbal Communication for Teachers and Trainers (4/5)

Course focuses on the nonverbal behaviors used by students and teachers/trainers, and the impact of those behaviors on student/teacher relationships. Taught in intensive format only during summer session.

### 472/572 Communication in Your Workplace: Strategies for Teachers and Administrators (4/5)

Course focuses on the organizational communication variables that operate within the classroom, school, community, and state. Increases the abilities of teachers and administrators to understand and respond to the various organizational constituencies to which they are accountable. Taught in intensive format only during summer session.

### 473/573 Effective Listening and Small Group Communication for Teachers and Trainers (4/5)

Course focuses on steps to more effective listening and working in small groups for teachers and trainers. Designed to familiarize teachers and trainers with the keys to active listening, the stages of group development and decline, how to manage groups, and improving their cooperation and productivity. Taught in intensive format only during summer session.

### 474/574 Family Communication for Teachers and Trainers (4/5)

This course explores issues of family communication for classroom teachers and organizational trainers. The definition and nature of contemporary families are explored. Children's views of the family and peer relationships are highlighted. Conflict, stress, decision making, and problem solving are discussed. Special activities for the teacher and trainer are provided. Taught in intensive format only during summer session.

### 475/575 Instructional Communication Assessment for Teachers and Trainers (4/5)

Examination of test construction and grading practices, procedures, and formats. Analysis of underlying assumptions and philosophies of assessment in education. Emphasis on the alignment among objectives, testing practices, and evaluation procedures. Taught in intensive format only during summer session.

### 476/576 Children's Conflict and Mediation for Teachers and Trainers (4/5)

This course focuses on the design and implementation of peer dispute mediation programs within elementary and secondary school systems. Course content includes discussion of children's communication development and development of conflict management ability, the rationale underlying and challenges involved with implementing peer mediation programs, and

approaches to training youngsters in mediation and conflict management communication skills. Taught in intensive format only during summer session.

#### **477/577 Communicating with Diverse Students (4/5)**

This course is designed to explore issues relevant to enhancing communication competence and effectiveness between individuals of diverse backgrounds. Specifically, the class will address interactions between people from a variety of backgrounds including gender, age, religious, geographical, ethnic or racial differences. The focus will be on examining the impact of variables such as communication. Students will have the opportunity to explore the underlying patterns that influence their own, as well as others', communication behaviors and discuss strategies to improve understanding of, and appreciation for, differences. Taught in intensive format only during summer session.

#### **496A Health Communication Internship (4)**

Prereq: mjr; perm. This course will provide students with a supervised, guided practical experience relevant to their Health Communication concentration.

#### **496B Organizational Communication Internship (4)**

Prereq: mjr; perm. This course will provide students with a supervised, guided practical experience relevant to their Organizational Communication concentration.

#### **496C Communication in Public Advocacy Internship (4)**

Prereq: mjr; perm. This course will provide students with a supervised, guided practical experience relevant to their Communication and Public Advocacy concentration.

#### **480 Topics in Communication (4)**

Prereq: COM mjr; perm. The structure of the course will vary with each instructor, but readings, classroom discussion, and demonstration of understanding through written work will be typical.

#### **497 Internship (1-15)**

Prereq: perm. Supervised practical training, 90 hrs, and experience in selected professional environments for COMS undergraduate students.

#### **497T Communication Studies Tutorial (1-15)**

Prereq: Honors Tutorial College and perm.

#### **498 Independent Study (1-4, max 12)**

Prereq: written proposal & perm. May be repeated for credit.

#### **498T Communication Studies Tutorial (1-15)**

Prereq: Honors Tutorial College and perm.

#### **499T Communication Studies Tutorial (1-15)**

Prereq: Honors Tutorial College and perm.

## **Communication Systems Management (COMT)**

#### **101 Consumer Issues in Communication Systems Management (4)**

Provides a broad overview of issues in voice, data, and image communications. Topics focus on consumer issues, technological advancements, and the impact of communication systems on society.

#### **214 Introduction to Communication Systems Management (4)**

General principles and techniques of point to point telecommunications. Includes brief history of field and general introduction to technology of voice, data, and image transmission.

#### **220 Communication Systems and Applications I (4)**

Prereq: 214, major. Principles of operation and design of typical voice and imaging communication systems. Includes switching, transmission, traffic studies, queuing techniques, and broadband networks.

#### **222 Communication Systems and Applications II (4)**

Prereq: 214, major. Principles, theories, and technology of data networks are explored in this course. Topics include coding and timing of data, components of data networks, and protocols.

#### **302 Fundamentals of Common Carrier Regulation (4)**

Prereq: 214, 220, ECON 103, major. Study of regulatory systems, tariff structures, and costing of telecommunications across state and national boundaries. Basic policy development at state and federal levels. Impact of the Telecommunications Act of 1996.

#### **304 Applications of Common Carrier Regulation (4)**

Prereq: C or better in 302, major. Provides applications of the materials learned in 302. Topics include the tariff filing process, rate making methodologies, the Computer Inquiries, and regulation of emerging technologies.

#### **310 Technological Basics of Communication Systems (4)**

Prereq: 220 and 222, major. Investigation of the technical issues common to all communications systems. Topics include basic electrical and electromagnetic theory, fundamentals of circuits and components, and operation of the telephone and other communications equipment.

#### **312 Technology of Voice/Data Systems (3)**

Prereq: 310, major. Basic laboratory experience in the technologies commonly found in voice and data telecommunication systems. Students design, examine, and build basic telecommunication circuits; and develop both competency in the use of telecommunication test equipment and skills in system problem analysis.

#### **325 Data Networks (4)**

Prereq: 220 and 222, major. Provides the understanding needed to use telecommunication protocols and access methods to design and implement applications software in a data communications environment. Topics will include: SNA, DECNET, selected other protocols, and the OSI model.

#### **379 Protection of Communication Systems (3)**

Prereq: 220, 222, major. Examination of security and protection of communications systems and networks. Topics will include disaster prevention and recovery, securing voice and data systems against hackers, and securing sensitive information.

#### **391 Topical Seminar (3-4)**

Prereq: 220, 222, major. Specialized topics, taught by faculty or visiting professionals.

#### **401 Internship in Communication (1-12)**

Prereq: written proposal and perm. Internship with approved company, agency, or organization. Application necessary; comprehensive paper required. Students may not apply both 401 and 495 toward COMT elective requirement.

#### **405 Competition and Market Structure in Network Industries (4)**

Prereq: 304, 310, major. An in-depth analysis of policy and market issues of fundamental concern to the voice/data communication environment. Examples of such issues could include markets for bandwidth, antitrust and software markets, cost allocation, and data network traffic pricing.

#### **407 International Communication Networks (4)**

Prereq: 302, 310, major. A study of international communication organizations (PTTs, the ITU, etc.), international satellite organizations, and other international record carriers. The course will explore current issues in international standards and regulations.

#### **429 Communication Network Analysis and Design (4)**

Prereq: 220, 222, 304, statistics, major. An extensive examination of the process of designing communications networks. Topics will include statistical distribution of voice, data, and image traffic; definition of limitations in communication networks; and experiences in modeling various network topologies.

#### **431 Senior Seminar (2)**

Prereq: 302, 222, major. Weekly discussions with faculty and telecommunication professionals; position papers required for discussion and presentation.

#### **444 Management of Communication Resources (4)**

Prereq: 304, major. Case studies in costing communication carriers; developing and responding to RFPs/RFOs; and needs analysis of communication installations. Extensive paper required.

#### **491 Topical Seminar (3-4)**

Prereq: 222, 302, major. Specialized topics taught by faculty or J. Warren McClure Distinguished Visiting Professor.

#### **493 Special Studies (1-4, max 12)**

Prereq: 214, major, and proposal. Independent study, supervised by faculty.

#### **495 Practicum in Communication Systems (3-5, max 12)**

Prereq: perm. Faculty-supervised first-hand experience with installing, designing, configuring, maintaining, or otherwise managing communication systems. A written report is required. Students may not apply both 401 and 495 toward COMT elective requirement.

## **Computer Science (CS)**

#### **120 Computer Literacy (4)**

(fall, winter, spring) Basic computer course for students from different disciplines who are expected to use computers in an academic environment. Lecture emphasis is on concepts—what the student needs to know about computer systems, essential applications, internet options, and computer security and ethical concerns in an information age. Lab emphasis is on skills—what the student needs to practice to be proficient with word processing, spreadsheets, database management systems, presentation graphics and web pages as problem-solving tools. No credit if CS major; no credit if MIS 100 or HS 309.

#### **190 Workshop in Computer Applications (.5-5)**

Short courses in specific topics in computer applications. Lecture and hands-on practice on such subjects as the internet, word processing, spreadsheets, and databases. Students seeking credit must complete project determined by instructor. Graded credit/no credit.

#### **210 Programming in C (5)**

Prereq: MATH 113 or placement level 2 or 263A or 163. A first course for students with no programming background who intend to continue with more advanced programming classes. Basic programming and programming structure, computer organization, data representation, control structures, manipulation of strings, arrays, structures, and pointers. Computer solutions to a variety of problems using the C programming language. Debugging and verification techniques.

#### **220 Introduction to Computing (5) (IM)**

Prereq: MATH 113 or equiv. Algorithms, programs, and computers. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Computer solution of several numerical and nonnumerical problems using one or more programming languages. Course does not apply to Arts and Sciences natural science requirement. FORTRAN taught.



**230 Computer Programming I (5) (2A)**

Prereq: 2 yrs HS Algebra or MATH 113 or equiv. (fall, winter, spring, summer) Intended as a stand-alone class for students who want to learn about computer programming for their use in unrelated fields. Basic programming and program structure. Programming and computing systems. Debugging and verification of programs. Data representation. Organization and characteristics of computers. Survey of computers, languages, systems, and applications. Computer solution of several numerical and nonnumerical problems using one or more programming languages. JAVA taught.

**240A Introduction to Computer Science (5)**

Prereq: MATH 115 or math placement level 3 or MATH 263A; 210 or perm. (fall, winter, spring, summer) An intensive introduction to the process of algorithmic problem solving in a computing environment. Topics include problem definition and specification, algorithm design, efficiency and validity of implementation. Serves as an introduction to advanced topics in computer science for students with previous programming experience.

**240B Introduction to Computer Science (4)**

Prereq: 240A, MATH 263A, EE 102 (fall, winter, spring) Implementation and application of standard data structures and their operations, abstract data types and encapsulation, sorting, searching, storage management and complexity of algorithms. Continuation of 240A.

**240C Introduction to Computer Science (4)**

Prereq: C or better in 240B, MATH 263B; 265 or EE 103 (fall, winter, spring) One large program will be developed by the student with design guidance from the instructor. This course will synthesize the material from 240A and 240B into a disciplined approach to design and development using current software engineering principles and practices for specification, design, coding, and testing.

**265 Computer Ethics (1)**

Prereq: 240A. (fall, winter, spring) An investigation into the ethical dimensions of computer technology. The course begins with an overview of the dominant traditions within normative ethics. These theories are then used as a framework within which students consider specific ethical topics germane to computing and information technology. Topics include censorship, intellectual property, privacy, and the obligations and implications of cyber-relationships.

**297T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (fall) First-year tutorial studies in computer science.

**298T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (winter) First-year tutorial studies in computer science.

**299T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (spring) First-year tutorial studies in computer science.

**300 Introduction to Discrete Structures (5)**

Prereq: 240A. (fall, winter, spring) Review of set algebra including mappings and relations. Algebraic structures including semi-groups and groups. Elements of theory of directed and undirected graphs. Boolean algebra and propositional logic. Applications of these structures to various areas of computer science.

**309 C++ for Non-majors (4)**

Prereq: 210 or 230 or ET 181. Designed to teach the C++ language to technically able students with previous programming experience who are not majoring in Computer Science. Deals with various topics including the syntax and semantics of C++, modular design of programs, functions, iterative structures, selection structures, classes, arrays, abstract data types (ADTs), and the separate compilation of modules. Includes a brief introduction to the string class and template classes.

**320 Organization of Programming Languages (5)**

Prereq: C or better in 240B, 300. (winter, spring) Formal definition of programming languages, including specification of syntax and semantics. The imperative, object-oriented, functional, and logic programming language paradigms are discussed. Names, binding, storage allocation, type checking, and scopes in the major programming languages. Programming language design issues including data types, expressions, assignment statements, control structures, and subprograms. Runtime representation of program and data structures.

**361 Data Structures (5)**

Prereq: 300, 240C. (fall, spring) Basic concepts of data. Linear lists, strings, arrays, and orthogonal lists. Representation of trees and graphs. Storage systems and structures and storage allocation and collection. Multilinked structures. Symbol tables and searching techniques. Formal specification of data structures, data structures in programming languages, and generalized data management systems.

**397T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (fall) Second-year tutorial studies in computer science.

**398T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (winter) Second-year tutorial studies in computer science.

**399T Computer Science Tutorial (1-15)**

Prereq: HTC students only. (spring) Second-year tutorial studies in computer science.

**404 Design and Analysis of Algorithms (5)**

Prereq: 361. (fall, winter) The course provides an introduction to the modern study of computer algorithms. Topics include correctness of algorithms, analysis of iterative and recursive algorithms, worst-case, best-case, and average-case behavior, design of algorithms, divide and conquer algorithms, the greedy method, graph searching, and dynamic programming techniques. Selected additional topics may include computational geometry or NP-completeness.

**406 Computation Theory (5)**

Prereq: 300. (fall, spring) The fundamentals concerning formal language theory and the theory of computation are explored. Topics include basic models of computation, the Church-Turing thesis, Turing machines, decidability and undecidability, computational complexity, NP-completeness, and diagonalization.

**410 Formal Languages and Syntactic Analysis (5)**

Prereq: 320, 361. (winter) Practical and formal aspects of computing related to the lexical and syntactic analysis stages of compilation are explored. The relationships among regular expressions, deterministic finite automata, and nondeterministic finite automata are presented. The relationship between context-free grammars and pushdown automata is also explored. Practical parsing algorithms are examined, including bottom-up, town-down, and recursive descent strategies.

**442 Operating Systems and Computer Architecture I (5)**

Prereq: 361, EE 395A. (fall, winter) In-depth coverage of computer operating systems and related computer architecture issues. Coverage of physical devices, interrupts, and communication between the computer and external hardware. Interfaces between user programs and the operating system, system calls, software interrupts, and protection issues. Context switching, process address spaces, and process scheduling. Process synchronization, interprocess communications, critical sections, and deadlock detection and recovery. Memory mapping, swapping, paging, and virtual memory.

**444 Data Communications (5)**

Prereq: 442. (winter) In-depth coverage of

computer-to-computer and program-to-program communication over modern computer networks focusing on the TCP/IP protocol family. Review of data communication issues, physical address binding, bridging, Ethernet, and Token Ring. Internetwork protocols, routing, domains, networks, and subnetworks. Transport protocols, reliability, flow control, retransmission, and acknowledgment. Distributed systems, server and client issues including verification, and authentication. High-level protocols and applications including electronic mail, network news, remote terminal interaction, and the World Wide Web.

**456 Software Design (5)**

Prereq: 361; 320 or EE 352 (fall, spring) All major phases of the software engineering lifecycle, including system engineering, requirements analysis, design, implementation and testing. Communication skills that are relevant to working in software engineering teams and interacting with customers. Teams of students perform all software engineering phases in response to the needs of a customer.

**458 Operating Systems and Computer Architecture II (5)**

Prereq: 442. (spring) Continuation of 442. Detailed discussion of virtual memory and backing stores. File system interfaces, implementation, and protection mechanisms. Process scheduling issues, policies, and mechanisms. Interprocess communication between programs on different computers. Distributed systems issues, examples, and implementation.

**462 Database Systems I (5)**

Prereq: 361. (winter, spring) Introduces fundamental concepts in data modeling and relational database systems. Begins with the entity-relationship (ER) modeling technique as a tool for conceptual database design. The relational data model and relational algebra are introduced next, followed by the SQL query language for relational databases. Functional dependencies, normalization, and relational database design algorithms are then discussed.

**475 Internet Engineering (4)**

Prereq: 361 or perm. (spring) Understanding internet protocols; network cabling, hubs, and switches; configuring network routers; configuring Unix and Windows workstations; measuring and analyzing network performance; and troubleshooting.

**480 Artificial Intelligence (5)**

Prereq: 300. (fall) Definition of heuristic versus algorithmic methods, rationale of heuristic approach, description of cognitive processes, and approaches to mathematical invention. Objectives of work in artificial intelligence, simulation of cognitive behavior, and self-organizing systems. Heuristic programming techniques including use of list processing languages. Survey of examples from representative application areas. Mind-brain problem and nature of intelligence. Class and individual projects to illustrate basic concepts.

**490 Special Problems in Computer Science (1-6)**

Prereq: jr; 3 400-level courses below 490. Special project in 1 of various subfields of computer science or application area studied, investigated, and/or solved by individual student or small group working in close relationship with instructor. Suitable problems might include construction of compiler for special purpose artificial language, perfection of computer code to solve some significant problem, or study of coherent subfield of computer science. May be repeated for credit.

**496 Computer Science Internship (1-15, max 15)**

Prereq: perm.

## Computer Science Technology (CTCH)

The following courses for the A.A.B. in computer science technology are available only on the Chillicothe, Lancaster and Southern campuses.

### 125 Introduction to Computers (4)

Prereq: C or better in MATH 101. Introduces productivity software within the framework of business applications. Involves hands-on assignments including Windows, word processing, spreadsheets, presentation graphics, the Internet, and e-mail.

### 127 Introduction to Website Management (4)

Introduction to Website management principles, skills, techniques, strategies, hardware, and software necessary to operate and maintain a successful Website or Intranet. Emphasis on how to maximize the usability of a website while maintaining the structure necessary to allow the site to change and grow.

### 133 Programming and Design I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and computer programming. Students analyze, design, program, test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

### 134 COBOL Programming I (5)

Prereq: MATH 101 or higher placement. Introduction to structured design and COBOL programming. Students analyze, design, program, test, and debug business applications. Emphasis is on top-down logic design and modular-structured programming.

### 160 Network Concepts I (4)

Prereq: MATH 101 or higher placement. Concepts and principles of business data communications are explored. Topics include communication media and equipment, data transmission, protocols, networks, and network management.

### 161 Network Concepts II (4)

Prereq: C or better in CTCH 160. Concepts and principles of computer networks are explored. Topics include uses of computer networks, network basics, building a network, network management, and network security.

### 162 Network Systems I (4)

Prereq: C or better in CTCH 161. Concepts and principles of client server systems are explored. Topics include introduction to client server computing, understanding LAN, MAN, and WAN, how to build a client server system, and client server management.

### 189A Internets and Distributed Computing 1 (4)

Prereq: C or better in 160. An introduction to the use of internets and distributed computing. Study will focus on the theoretical foundations of internetworking including the OSI reference model, the TCP/IP reference model, network configurations, and networking protocols.

### 189B Internets and Distributed Computing 2 (4)

Prereq: C or better in 189A. A continuation of 189A, the course examines the routing and routed protocols used in internetworking, the hardware and software involved in the design, installation, configuration, maintenance, and evaluation of an internet.

### 189C Distributed Computer Applications (4)

Prereq: C or better in 189B. A continuation of 189B, this course focuses on the characteristics of distributed business applications including databases, video conferencing, and enterprise resource planning.

### 189D Network Security (4)

Prereq: C or better in 189C. A continuation of 189C, the course provides an in-depth

examination of distributed communication systems including the management of the infrastructure and the provision of network security.

### 233 Programming and Design II (5)

Prereq: C or better in 133. Continuation of 133 with emphasis on array handling and file processing.

### 234 COBOL Programming II (5)

Prereq: C or better in 134. Continuation of 134 with emphasis on table handling and file processing.

### 240 C/C++ Programming (5)

Prereq: MATH 101 or higher placement. An introduction to C programming language. Students analyze, design, program, test, and debug business-related applications. Emphasis on top-down logic design and modular structured programming.

### 241 Visual Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and visual programming techniques. Includes analyzing, designing, coding, testing, and debugging computer applications using visual programming.

### 242 Java Programming (5)

Prereq: MATH 101 or higher placement. Introduction to logic and Java programming. Includes analyzing, designing coding, testing, and debugging computer applications using Java.

### 285 Database Management Systems (4)

Prereq: C or better in 125. Introduction to database management systems. Focus is on applying the techniques of data base to create effective and efficient information systems.

### 290 Special Topics (1-5, max 10)

Prereq: perm. Provides the opportunity to explore or expand upon subjects or topics not covered or only briefly covered in other CTCH courses. Topics may vary from year to year and may include either business or scientific applications in computer science.

### 291A Systems Analysis I (4)

Prereq: C or better in 125. This course looks at the planning and management of information systems projects, along with tools for analysis and evaluation of alternatives.

### 291B Systems Analysis II (4)

Prereq: C or better in 291A. Continuation of 291A with emphasis on designing and implementing information systems, along with testing and maintenance.

### 299 Practicum (1-10, max 20)

Prereq: perm.

## Dance (DANC)

### 090 Composition Laboratory (0)

This course is to be taken in conjunction with composition classes.

### 101A Modern Dance Technique I (3)

Prereq: Dance major/minor or perm. required. Introduction to basic technical skills of modern dance including alignment, strength, flexibility, rhythmic accuracy, and reproduction of a movement shape.

### 102A Modern Dance Technique I (3)

Prereq: 101A or perm. required. Continuation of 101A.

### 103A Modern Dance Technique I (3)

Prereq: 102A or perm. required. Further development of 102A.

### 101B Ballet Technique I (2)

Prereq: Dance major/minor or perm. required. Introduction to ballet and the development of basic technical skills within the classical ballet tradition. Execution of basic ballet vocabulary with an emphasis on classical line.

### 102B Ballet Technique I (2)

Prereq: 101B or perm. required. Continuation of 101B.

### 103B Ballet Technique I (2)

Prereq: 102B or perm. required. Further development of 102B.

### 101C Beginning Composition (2)

Prereq: Dance major/minor or perm. required. Exploration of movement materials through improvisation and short problems dealing with rhythm, space, movement qualities, and dynamics.

### 102C Beginning Composition (2)

Prereq: 101C or perm. Continuation of 101C.

### 103C Beginning Composition (2)

Prereq: 102C or perm. Further development of 102C.

### 111 Music for Dance I (2)

Prereq: perm. Nature and principles of rhythmic structure in dance and music.

### 120 Introduction to Dance (2)

(A) modern dance, (B) ballet, (C) jazz.

### 150 Viewing Performance (2)

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, MUS 150, or THAR 150.

### 170 Viewing 20th-Century Dance (4) (2H)

Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, physiological, social, and cultural aspects.

### 171 The Dance Experience (4) (2H)

A comprehensive course to introduce the beginning student to contemporary and classical dance forms including modern, ballet, and jazz dance styles. Discussions and readings cover historical and aesthetic perspectives. Live performances and studio practice contribute to students' experiential learning.

### 201A Modern Dance Technique II (3)

Prereq: 103A or perm. required. Development of basic technical skills for modern dance. More complex coordinations which add more spatial and dynamic considerations.

### 202A Modern Dance Technique II (3)

Prereq: 201A or perm. required. Continuation of 201A.

### 203A Modern Dance Technique II (3)

Prereq: 202A or perm. required. Further development of 202A.

### 201B Ballet Technique II (2)

Prereq: 103B or perm. required. Expanded balletic movement vocabulary with continued emphasis on basic technical skills. Musicality will be emphasized.

### 202B Ballet Technique II (2)

Prereq: 201B or perm. required. Continuation of 201B.

### 203B Ballet Technique II (2)

Prereq: 202B or perm. required. Further development of 202B.

### 201C Intermediate Composition (2)

Prereq: 103C or perm. Choreographic studies to enhance the student's understanding and appreciation of the creative process by developing the concepts of rhythm, space, and dynamics into longer, more detailed studies.

### 202C Intermediate Composition (2)

Prereq: 201C or perm. Continuation of 201C.

### 203C Intermediate Composition (2)

Prereq: 202C or perm. Further development of 202C.

**211 Creative Listening for Dance (1)**

This course affords opportunity for students to gain knowledge of different musical styles through exposure to a wide array of music listening experiences. Students are encouraged to share musical interests and tastes.

**220 Dance Technique II (2)**

Prereq: 120 or equiv. (A) modern dance, (B) ballet, (C) jazz.

**231 Introduction to Dance Kinesiology (2)**

Introduces student to basic anatomical materials, kinesiological concepts, and their relationship to production of dance movement.

**240 Practicum in Teaching Dance I (1)**

Prereq: perm. Observation and assistance in student teaching. May be repeated.

**250 Ethnic Dance of Non-Western Cultures (2)**

Dances from selected non-Western cultures with emphasis on style and related folklore.

**255 Ethnic Dance of Western Cultures (2)**

Dances from selected Western cultures with emphasis on style and related folklore.

**271 Black Dance Forms (4) (2H)**

A lecture and studio/lab course that will familiarize students with Black dance forms and the contributions that African Americans have made to the development of dance in America. Discussions, readings, videotaped material, live performances, and studio practice will all contribute to the students' experiential learning.

**301A Modern Dance Technique III (3)**

Prereq: 203B or perm. required. Refinement of technical skills through more complex movement patterns. Additional emphasis on performance, phrasing, dynamics, and spatial concerns.

**302A Modern Dance Technique III (3)**

Prereq: 203A or perm. required. Continuation of 301A.

**303A Modern Dance Technique III (3)**

Prereq: 302A or perm. required. Further development of 302A.

**301B Ballet Technique III (2)**

Prereq: 203B or perm. required. Employment of technical skills through more complex balletic patterns and expanded classical vocabulary. Additional emphasis on performance, phrasing, and dynamics.

**302B Ballet Technique III (2)**

Prereq: 301B or perm. required. Continuation of 301B.

**303B Ballet Technique III (2)**

Prereq: 302B or perm. required. Further development of 302B.

**301C Advanced Composition (2)**

Prereq: 203C or perm. The synthesis of choreographic elements, devices, and musical or sound choices into studies having a sense of form and content.

**302C Advanced Composition (2)**

Prereq: 301C or perm. Continuation of 301C.

**303C Advanced Composition (2)**

Prereq: 301C or perm. Further development of 302C.

**310 Accompaniment for Dance (2)**

Prereq: 111 or perm. Basic problems in accompanying dance and analysis of dance forms related to accompaniment.

**311 Midi Composition for Dancers (3)**

This course is about creating musical compositions using a computer sequencer and sample based synthesizers. The primary objectives are gaining a working knowledge of a MIDI and investigating the qualities and parameters that are basic to music composition and how they relate to dance composition and performance.

**312 Music for Dance II (3)**

Prereq: 111 or equiv. Also for music composition majors who wish to write for dance theater. History of music for dance. Choreographer-composer relationship.

**313 Dance Notation I (3)**

Prereq: perm. Principles of dance notation.

**318 Collaborative Skills for the Dance Musician (2)**

Technique and skill training for pianists in accompanying ballet and modern dance techniques classes. Includes class and lab sessions.

**320 Dance Technique III (2)**

Prereq: 220 or equiv. (A) modern dance, (B) ballet, (C) jazz.

**330 Dance Movement Lab (1-5)**

Prereq: perm. Addresses individual problems related to the production of movement. Means to augment physical function and expand the qualitative range of the mover are explored.

**330A Pilates Reformer Training (1)**

Designed to condition students using resistance training on the Universal Reformer and other Pilates apparatus. Students learn exercise principles and techniques on specialized equipment, focusing on correction of body alignment problems, muscle imbalances, strength, and flexibility.

**330B Bartenieff Fundamentals (1)**

Exploration and practice in a system of movement training designed to improve the functional and expressive aspects of movement.

**330C Pilates Mat Training (1)**

Includes laboratory practice of 45 mat exercises that train the muscles to improve body stability and mobility. The Pilates method develops precision coordination and concentration in movement while increasing strength and flexibility. Addresses injury rehabilitation from the perspective of preventive training.

**331 Analysis of Dance Movement (4)**

Prereq: 231. Explores skeletal alignment and deviation, muscular development and function, and mechanical efficiency in production of dance movement. Basic to course study is thorough understanding of principles of stability and motion as they relate to dance.

**332 Fitness for the Whole Mover (2)**

Introduces the basics of fitness in practice and theory. Strength, flexibility, aerobic conditioning, and relaxation as a part of the fitness continuum are explored through a variety of approaches to creating and attaining fitness goals.

**333 Pilates Teaching Practicum (2)**

This course is designed to provide supervised teaching experience and practice for students preparing to enter the Pilates Teacher Certification Program. Students will conduct practice teaching on all Pilates apparatus, learning body alignment, exercise prescription and progress assessment techniques.

**351 Dance Cultures of the World I (4) (2C)**

Introduction to dance cultures of world (excluding Western art dance). Function of dance in society and its relationship to other arts.

**352 Dance Cultures of the World II (4) (2C)**

Same as 351.

**353 Dance Cultures of the World III (4) (2C)**

Same as 351.

**370 Viewing 20th Century Dance (4)**

Prereq: not open to students who have had 170; jr and above. Art of dance from broad point of view, involving dance viewing, literature, and participation. Deals with aesthetic, psychological, social, and cultural aspects.

**380 Practicum in Dance Production (1)**

Prereq: perm. Supervised lab practice in production and/or performance. May be repeated.

**385 Dance Repertory (3, max 12)**

Prereq: majors only, audition, and perm. Rehearsal and performance of choreographic works taught by choreographer or reconstructors with aid of videotape, film, and/or dance scores.

**401A Modern Dance Technique IV (3)**

Prereq: 303A or perm. required. Employment of technical skill to address the more subtle demands of performance focus, projection, expressivity, and dynamic range.

**401B Ballet Technique IV (2)**

Prereq: 303B or perm. required. Employment of technical skills and performance demands within the classical ballet tradition.

**402A Modern Dance Technique IV (3)**

Prereq: 401A or perm. required. Continuation of 401A.

**402B Ballet Technique IV (2)**

Prereq: 401B or perm. required. Continuation of 401B.

**403A Modern Dance Technique IV (3)**

Prereq: 402A or perm. required. Further development of 402A.

**403B Ballet Technique IV (2)**

Prereq: 402B or perm. required. Further development of 402B.

**411 Dance Notation II (3)**

Prereq: 313 or perm. Continuation of 313 with more advanced reading and writing in notation.

**420 Dance Technique IV (2)**

Prereq: 320. (A) modern dance, (B) ballet, (C) jazz.

**431 Dance Kinesiology Seminar (2)**

Prereq: 331. Assists student to construct anatomically sound and functionally effective dance class.

**440 Practicum in Teaching Dance II (2)**

Prereq: 240 and perm. Student teaching under supervision.

**441 Teaching Dance I (3)**

Prereq: perm. Principles of teaching dance and their practical application. Dance for children.

**442 Teaching Dance II (2)**

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adolescents.

**443 Teaching Dance III (2)**

Prereq: at least 1 qtr of 240; coreq with 440. Principles of teaching dance and their practical application. Dance for adults.

**460 Senior Seminar (2)**

Prepares students for the field of dance and related careers. Skills in writing, networking, and oral presentation, as well as the ability to access available resources, are refined.

**471 History of Dance I (4) (2H)**

Development of Euro-American dance in the 20th century with focus on contemporary dance through the present.

**472 History of Dance II (4) (2H)**

Global dance forms: Study of dances in historical and cultural contexts, their functions in society and relationships to contemporary artistic expressions. Focus on topics from traditional and recent research in world dance.

**473 History of Dance III (4) (2H)**

Development of Euro-American dance from classic times through 20th-century ballet, with emphasis on Baroque, Romantic, and Diaghilev periods.

**480 Production Problems****for Dance Theater (3-6, max 6)**

Prereq: perm. Includes choreography, performance, and production aspects of senior projects and other dance events.

**488 Dance Choreography and Video Techniques (2)**

Prereq: perm. Designed to increase awareness of the possibilities of video in dance, both as



a recording tool and a creative tool. The basics of video production and digital editing will be introduced in order for dance choreographers to become familiar with video technology applicable to dance.

#### 490 Independent Study (1-10)

Prereq: perm.

#### 494 Internship (1-16)

Prereq: perm. Provides credit for internship experience in which some dance majors may participate. Internship allows individual to gain actual experience in field of dance and related areas, e.g., apprentice/performing, technical production, arts administration.

#### 495 Special Topics in Dance (1-4)

Special topics relating to the choreography, technique, production elements, or aesthetics of historical or contemporary dance forms.

## Deaf Studies and Interpreting (DSI)

The following courses for the proposed A.A.S. in deaf studies and interpreting are available only on the Chillicothe campus:

#### 111 Sign Language and Deaf Culture I (4)

Different types of deaf and the different languages utilized by each. Includes signing paragraphs, using ASL, PIDGIN, and SEE, studying culture, and participating in short community-based research projects.

#### 112 Sign Language and Deaf Culture II (4)

Prereq: 111. Continuation from 111 of deaf languages and culture. Includes more than 300 additional signs, continuing to use ASL, PIDGIN, and SEE, reverse interpreting paragraphs, and studying idioms and slang terms.

#### 113 Sign Language and Deaf Culture III (4)

Prereq: 112. Continuation from 112 of deaf languages and culture. Includes additional signs, continuing to use ASL, PIDGIN, and SEE, further reverse interpreting of paragraphs, and translating idiom and slang paragraphs. Discusses deaf in mental institutions, prisons, and the court system. Students interpret for University functions and programs.

#### 120 Introduction to Deaf Studies and Interpreting (1)

First of three assessments in deaf studies and interpreting degree program, evaluating knowledge of various sign languages used, types of deaf people using each of the sign languages, cultural aspects of deafness, speed in signing, comprehension speed, and interpreting and reverse interpreting skills. Offers basic introduction to knowledge and skills required for successful completion of the degree. Covers history of interpreting, career opportunities, ethical considerations, and includes discussion of program courses, seminar paper, and second and third assessments.

#### 161 Orientation to Deafness (3)

Broad overview of field of deafness, focusing on education perspectives, psychosocial precepts, communication modes, vocational opportunities, support services, and recent technological advances. Benefits parents, educators, vocational rehabilitation counselors, interpreters, and other professionals who come into contact with the deaf and hearing impaired community.

#### 191 Interpreting as a Profession (1)

Prereq: 120. Second of three assessments in deaf studies and interpreting degree program, requiring 50-60 percent improvement from 120 in speed in signing, knowledge of culture, and interpreting and reverse interpreting skills. Includes introduction to paralinguistics, professionalism of interpreting (dress, demeanor, professional organizations), national certification, and ethics of the profession and their impact on personal lives.

#### 211 Sign Language and Deaf Culture IV (4)

Prereq: 113. Additional signs and advanced usage of previous signs from first-year sequence. Includes interpreting for University functions, community meetings, and business situations.

#### 212 Sign Language and Deaf Culture V (4)

Prereq: 211. Signs beyond 211 and a larger role in interpreting situations. Additional cultural information (family relationships, sexual relationships, and more) enhances abilities to work with and for the deaf in any context.

#### 213 Sign Language and Deaf Culture VI (4)

Prereq: 212. Signs beyond 212 and specific interpreting within community. Includes cultural information such as family dynamics, time orientation within mental health situations, and ethics for interpreting. Covers sexual signs, regional signs, and idioms specific to area.

#### 221 Practicum I (2)

Prereq: advanced standing, perm. Opportunity to work in teaching, training, and/or interpreting situations under supervision. Provides experience in program development and deals with professionalism in interpreting. May include student-teaching sign language classes within community and businesses, observation of professional interpreters, and critiques of videotaped interpreting situations.

#### 222 Medical Personnel and the Deaf (4)

For those in the emergency care field or studying to be an interpreter. Covers 150 essential signs for immediate communication, different types of deaf, different sign languages, working with deaf family members, legal issues for hospitals and nursing homes, sexual signs involved in rape cases and abuse, cultural issues working with male/female deaf, and more.

#### 224 Interpreters and Interpreting (3)

World of interpreting for the deaf, including detailed code of ethics and responsibilities imposed on those who interpret in all fields: platform interpreting, educational interpreting, medical interpreting, religious interpreting, etc. Discusses interpreter role within the courtroom, including the interpreter oath and its significance to the court, the interpreter, and the deaf.

#### 226 Practicum II (2)

Prereq: advanced standing, 221. Opportunity to interpret for the deaf without immediate supervision, extending knowledge of interpreting in specific contexts. Ability to work within community is enhanced through responsibility for teaching basic sign language classes and through critiques of videotaped interpreting situations.

#### 260 Critical and Traumatic Situations (3)

Sexual abuse of deaf children, including causes, incident rate, interviewing techniques, investigation problems, and involvement of law enforcement agencies, schools, hospitals, DARE, and crime prevention programs. Also discusses deaf in disaster situations, emergency response centers, first responders, and problems of victimization of deaf in research projects.

#### 286 Study of Deaf Culture (3)

Sociocultural aspects of deafness, addressing issues of deaf communities such as leadership roles, political activity, and organization. Examines the functioning of deaf within social institutions.

#### 288 Seminar in Deaf Studies (2)

Prereq: advanced standing, perm. Scholarly paper of no less than 50 pages is required for completion of the associate's degree in deaf studies and interpreting. Involves choosing research topic related to field of work, and engaging in library research, interviews, questionnaires, and other forms of inquiry.

#### 291 The Professional Interpreter (1)

Prereq: 191. Third and final assessment in deaf studies and interpreting degree program, serving as a capstone. Requires 45% 50% improvement from 191 and the ability to interpret effectively in any situation for any of the three types of

deaf. Covers introduction to Web sites regarding deaf, resume preparation for job interviews (including role plays), discussion and evaluation of past and current assessments, and in-depth review of ethics of interpreting and the Americans with Disabilities Act.

#### 298A-E Special Topics (1-4, max 12)

Opportunity to explore topics related to deaf studies either on an individual basis or in a structured course.

## Design Technology (DTCH)

The following courses are available only on the Lancaster campus:

#### 100 Introduction to Industrial Technology (3)

Overview of design and manufacturing options. Topics include machining, welding, steel production, quality control, interrelation of processes, design concepts, materials, mechanisms, and structures. Plant tours, lab work, and projects involved. Recommended for students having little or no background in mechanical design or manufacturing. 2 lec, 2 lab.

#### 150 Computer Aided Drawing (3)

Prereq: IT 101 or perm. Introduction to use of computers for making engineering drawings. Uses software for personal computers to create multiview drawings of machine parts and other projects selected by student. No computer background required. 6 lab.

#### 200 Engineering Mechanics I (4)

Prereq: MATH 115 or perm. Basic statics and dynamics. Coverage includes vectors, Newton's laws, trusses, frames and machines, friction, moments of inertia, particle kinematics and kinetics, work-energy, impulse-momentum. 4 lec.

#### 210 Engineering Mechanics II (4)

Prereq: 200 or perm. Introduction to strength of materials. Axial, torsional, and flexural loadings; plane stresses; beams; columns; deflections; statically indeterminate systems; testing methods. 3 lec, 2 lab.

#### 220 Machine Design (3)

Prereq: 210 or perm. Design of machine elements. Shafts, brakes, clutches, belts, couplings, bearings, springs, gears, fasteners, splines, and keys. Stresses in machine parts, materials applications. 3 lec.

#### 240 Mechanisms (4)

Prereq: 200 or IT 121, or perm. Design and analysis of simple mechanisms. Kinematics and kinetics of rigid bodies, graphical analysis of force, velocity and acceleration problems, linkages, instantaneous centers, gear trains, cams, rolling contact. 1 lec, 6 lab.

#### 250 Structural Design (4)

Prereq: 210 or perm. Design of structural components in buildings. Foundations, connections, materials selection, use of industry standards. 1 lec, 6 lab.

#### 299 Special Problems (1-3, max 6)

Prereq: perm. Individual projects or internship experiences under direction of faculty member in design option.

## Ecology

See Biological Sciences or Environmental and Plant Biology

## Economics (ECON)

#### 103 Principles of Microeconomics (4) (25)

Prereq: MATH 101 or higher math placement. Basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. Analysis of how the capitalist system determines what, how, and for whom to produce.

**104 Principles of Macroeconomics (4) (25)**

Prereq: 103 and MATH 101 or higher math placement. Basic theory of national income analysis. Causes of unemployment and inflation. Monetary and fiscal policies of the federal government.

**213 Current Economic Problems (4)**

Prereq: 103 and 104. Application of economic theory to current economic problems with emphasis on public policy implications.

**300 Mathematics for Economists (4)**

Prereq: 103 and 104 and perm. Mathematical analysis in economics. Calculus and matrix algebra techniques used prominently in economics literature, together with their application to selected problems in economics.

**303 Microeconomics (4)**

Prereq: 103 and 104. Price system as allocative mechanism. Price and production policies of individual firms and consumers under alternative market conditions and analysis of these policies on social efficiency of resource allocation. Students expected to have understanding of elementary algebra and geometry.

**304 Macroeconomics (4)**

Prereq: 104, jr; soph if major. Factors determining level of nation's economic activity and responsible for growth and stability in nation's economy. Part of course devoted to measures of national income while remainder consists of analysis of interrelationships among production, price levels, relative prices, employment, and capital formation. Students expected to have understanding of elementary algebra and geometry.

**305 Managerial Economics (4)**

Prereq: 103, QBA 201, and MATH 163A. Analysis of decision making in enterprise; market environment; measurement of influence of policy and nonpolicy variables on sales and costs; sales, cost, and profit forecasting; empirical studies of market structure and pricing; includes regression analysis.

**307 History of Economic Thought\* (4)**

Prereq: 103 and 104. Evolution of major economic doctrines: mercantilists, physiocrats, Adam Smith and classical school. May also cover historical school, Austrian school, Alfred Marshall and neoclassicists.

**312 Economics of Poverty (4)**

Prereq: 103 and 104. Incidence, causes, and consequence of poverty in affluent society. Economic theory, history, statistics applied to analysis of poverty-reduction measures.

**313 Economics of the Environment (4)**

Prereq: 103. Economic analysis of such environmental matters as air, water, and noise pollution, population growth, and land use. Emphasis placed on use of economic theory and empirical research in evaluating environmental policies.

**314 Natural Resource Economics (4)**

Prereq: 103, MATH 163A. Explores the economic aspects involved in the extraction and utilization of both renewable and nonrenewable natural resources. Topics include the economics of oil and mineral extraction, groundwater use, agricultural practices, forestry, and fisheries. It also examines the allocation of property rights and economic benefits and costs of natural resource use.

**315 Economics of Health Care (4)**

Prereq: 103 and 104. Demand for medical care, supply behavior of profit and nonprofit agencies, market structure, adverse selection, public and private health insurance.

**316 Economics and the Law (4)**

Prereq: 303 or 305 or perm. Major topics are property, contracts, and torts. Class time is divided between economic analysis of these topics in the abstract and actual legal cases that involve these topics.

**320 Labor Economics (4)**

Prereq: 103. Demand for labor, supply of labor, household production, compensating wage differentials, education and training, discrimination, unions, and unemployment.

**322 Economics of Human Resources (4)**

Prereq: 103. Investigation of the decisions individuals and families make regarding education, marriage, fertility, labor supply and child care as well as the effects of public policy on these decisions.

**332 Industrial Organization (4)**

Prereq: 303 or 305. Market structures, market conduct, and social performance of industries. Emphasis upon firms' strategic behavior in price and nonprice competition. Topics include oligopolistic pricing, strategic entry deterrence, location strategies, product quality, advertising, and research and development. Economic welfare implications of firms' behavior examined.

**334 Economics of Antitrust Law (4)**

Prereq: 303 or 305. Explores the economic behavior of the firm subject to antitrust laws. Topics include collusion, price discrimination, vertical restraints, and other behavior where the intent may be to monopolize a market. Also examines institutional incentives and economic benefits and costs of antitrust laws.

**335 Economics of Energy (4)**

Prereq: 103. Applies economic theory to analyzing public policy issues regarding energy production and use—including such topics as price controls, import dependency, conservation, supply outlook, and industry concentration.

**337 Government Regulation of Business (4)**

Prereq: 103 or 305 or perm. Why does the government regulate business? Reasons include the inefficiencies of market power, considerations of fairness, excessive competition, natural monopoly, externalities, and reducing transactions costs.

**340 International Trade (4)**

Prereq: 103. International trade patterns, theories of absolute and comparative advantage, classical and modern trade theory, tariffs, quotas, nontariff barriers, preferential trading arrangements.

**341 International Monetary Systems (4)**

Prereq: 104. How exchange rates are determined, fixed vs. flexible rates, government intervention, fiscal and monetary policy in open economy, transmission of inflation and unemployment among nations, international capital movements, covered interest arbitrage, forward exchange, Euro-currency markets.

**342 International Economic Policy (4)**

Prereq: 340 or 340. Current economic developments of foreign and U.S. economic policy. Commercial treaties and tariff policy; exchange rate instability; balance of payments problems including LDC debt situation; international liquidity issues; trade relations among industrial, underdeveloped, and Soviet-bloc countries; multinational corporations; roles of institutions such as World Bank, International Monetary Fund, and GATT.

**350 Economic Development (4)**

Prereq: 103 and 104. Nature of, obstacles to, and future possibilities for economic growth of nations. Special emphasis given to problems of underdeveloped countries. Studies of selected countries.

**351 Agricultural Development (4)**

Prereq: 103 and 104. Patterns of agricultural development: technological and demographic changes in agriculture; socioeconomic problems; marketing arrangements; case studies of specific agricultural development projects.

**352 Economic History of the United States (4)**

Prereq: 103 and 104. Economic factors in development of U.S. including historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to present.

**353 European Economic History (4)**

Prereq: 103 and 104. Economic growth of developed countries. Focus on industrial revolutions in Great Britain, France, Germany, and the former Soviet Union. Historical experience of these countries related to various theories of economic change.

**360 Money and Banking (4)**

Prereq: 104. Role of money and banking system in determination of national income and output. Monetary theory and policy emphasized.

**370 Comparative Economic Systems (4)**

Prereq: 103 and 104. Theoretical and institutional characteristics of capitalism and socialism with specific emphasis on prevailing economic systems in U.S., Great Britain, and the former Soviet Union.

**381 Introduction to Economic Statistics and Econometrics (4)**

Prereq: 103 and 104. Statistical methods are developed within an economic context. Fundamental statistical topics include descriptive statistics, basic probability theory, random variables, sampling, estimation, and hypothesis testing.

**382 Economic and Financial Analysis with Statistical Packages (4)**

Prereq: 104 and either 381 or QBA 201, PSY 221, POLS 482, or MATH 250/251. SAS language, using real life small and large data sets and applying SAS procedures to conduct statistical and financial analysis of economic and business data. Interpretation of statistical output of estimated functions and written reports for rational decision making using business and economic analysis.

**385 An Introduction to Economic Methodology and Research (4)**

Prereq: 303 (or 305), 304, 381, or equiv. Methods used by economists in investigation of economic problems. First part involves research methods, including contemporary statistical estimation techniques. Second part applies these techniques to investigation of economic phenomena. Types of application include construction and testing of simple econometric model, estimation of production functions, evaluating theories of factor pricing, estimating social costs of pollution, etc.

**406 Monetary Theory and Policy (4)**

Prereq: 303 (or 305) and 304. Emphasis on monetary economics. Money demand and supply theory and policies for minimizing cyclical fluctuations in economic activity.

**425 Public Policy Economics (4)**

Prereq: 104. Survey of economic approach to analyzing public policy issues. Uses concepts of welfare economics, public choice economics, and cost-benefit analysis, as applied to sample of policy subjects.

**430 Public Finance (4)**

Prereq: 303 or 305 or perm. Role played by government as user of economic resources and redistributor of incomes. Some questions explored: need for government's entry into economy, optimal size of government, selection of tax and expenditures schemes, and effects of government economic activity on private sector.

**431 Economics of Transportation (4)**

Prereq: 303 or 305. Economics of transport pricing; regulations of transport and national transport policy.

**444 Futures Markets (4)**

Prereq: 360 or FIN 327 or perm. Contracts, trading, institutions, and strategies, including hedging and speculation. No credit if FIN 444 taken.

**455 African Economic Development (4)**

Prereq: 350 or perm. Economic characteristics of African societies as traditional economies and in process of modernization.

**473 Economics of Southeast Asia (4)**

Prereq: 350 or perm. Economic characteristics, development problems, strategies, and prospects of countries of Southeast Asia.

**474 Economics of Latin America (4)**

Prereq: 350 or perm. Economics of Latin American countries, prospects for economic development of the region, nature and origin of institutional obstacles to economic change. Economic heritage of colonial period and subsequent evolution of economic institutions, resources of the area and utilization, and trends in economic activity and policy in post-WWII period.

**482 Topics in Econometrics (4)**

Prereq: 303 or 305, 381, MATH 163A or calculus, or perm. Basic linear regression models are explored within an econometric context. Simple and multiple linear regression models are introduced under classical assumptions and developed in relation to heteroskedasticity, autocorrelation, multicollinearity, and specification errors. Models with binary regressors, models with qualitative dependent variables, and the simultaneous equations model are introduced. Computer assignments provide experience in empirical social science research.

**491 Seminar (3-5)**

Prereq: perm. Selected topics of current interest in economics area.

**493 Readings (1-15)**

Prereq: perm. Readings in selected fields of economics. Topics selected by student in consultation with faculty member.

**493X Readings (1-15)**

Prereq: perm. Study abroad.

**495 Research (3-5)**

Methodology, analysis of data, and preparation of research findings.

**497 Independent Research (1-15)**

Prereq: perm. Research in selected fields of economics under direction of faculty member.

## Education

All programs and courses in the College of Education satisfy the standards of the Ohio State Department of Education and NCATE. Consult your advisor regarding program requirements and scheduling. In particular, note that some pairs or groups of professional education courses must be taken concurrently. Address questions to Student Services, McCracken Hall 124.

Each course in education may be taken no more than twice.

### Counselor Education (EDCE)

**201 Career and Life Planning Seminar (3)**

Designed to provide knowledge and skill in career and life planning for fr and sophs, especially for those who are undecided about college major and career. Emphasis on identifying strengths, clarifying values, exploring career options, and developing decision-making skills. Special section for Adult Learning Services students only: designed to provide knowledge and skill in career and life planning especially for adult considering job or career change. Emphasis on identifying skills, interests, experience, and values in relationship to new career choices and options.

**400 Special Topics in Guidance, Counseling, and Student Personnel (1-5)**

Prereq: perm. Independent studies, specialized projects, and seminars on following special topics: alcohol and substance abuse, biofeedback, self-control, and management of stress, marriage and family issues, assertiveness, human sexuality, and Adlerian theory, method, and research (may be repeated for max of 18 hrs)

**410 Human Relations (3)**

Prereq: jr. Study and practice of developing healthy and mutually satisfying interpersonal relationships. Lecture and discussion groups focus on dynamics of human relationships, factors fostering effective interaction.

and significance of self concepts in human communication. Topical headings include value clarification, games people play, self disclosure and trust, conflict resolution, sexuality, prejudice, death and dying, multicultural education, sexism, constructive use of anger, etc.

**420 Guidance Practices in Elementary Schools (4)**

Need, scope, and nature of elementary guidance surveyed. Guidance approaches and procedures examined for their usefulness in working with children and parents. Roles of elementary school counselor and other pupil personnel specialists reviewed for their contribution to growth and development of children. Opportunity for students to achieve greater self-understanding through involvement in self-appraisal.

**430 Guidance in American Secondary Schools (4)**

Same as 420 but pertains to secondary schools.

**440 Foundations in Group Dynamics (4)**

General principles and basic techniques of group dynamics. Interaction in human relations situations that occur in agency settings, business, classrooms, community, resident living, and various types of professionally led training, counseling, and growth groups. Through both cognitive and affective learning opportunities, students learn to understand and use group dynamics principles in areas of personal and professional interaction. Students attend weekly cognitive seminars as well as participate in ongoing group lab.

### Curriculum and Instruction (EDTE)

**100 (1)**

An introduction to teaching as a profession.

**101 Democracy and Education (4)**

Prereq: admission to CARE program. Coreq: 101L. An introduction to the unique role American public schools play in preparing citizens for democracy. Particular attention will be paid to the role of the teacher in the process, as well as to historical and sociological precedents.

**101L Democracy and Education: Field Experience (2)**

Prereq: admission to CARE program. Coreq: 101. Field experiences to complement EDCL 101 Democracy and Education. Will involve several school placements at differing classroom levels to promote comparison and analysis.

**200 Learning, Human Growth, and Development (6)**

Prereq: Admission to Professional Education. Coreq: 201, 202. Provides a general knowledge about human learning as it relates to the life cycle from birth to young adulthood. Designed to provide preservice teachers with a fundamental knowledge of human growth and development (physical, social, affective, and cognitive) and theories of learning.

**201 Characteristics of Learners with Exceptionalities (3)**

Prereq: Admission to Professional Education. Coreq: 200, 202. Covers a range of topics in the special education process, including identification, referral, assessment procedures, service delivery options, parental involvement, the law and legal issues, supports for inclusion, roles of agency and related service personnel, and characteristics of all types of learners with exceptionalities, including gifted, from preschool through young adulthood. No credit for both 201 and EDSP 271.

**201ABC Childhood in America (4)**

Prereq: 101. Introduces students to children and their characteristics at various levels of development. Students are also introduced to and encouraged to examine factors that influence children's learning in the schools, such as families, neighborhoods, race, culture, gender, and socioeconomic status. Students examine values and belief systems of themselves and children, as well as identify elements of successful parenting.

**202 Field Experience in Education (2)**

Prereq: Admission to Professional Education. Coreq: 200, 201. Students apply principles of typical child development, learned in 200, and exceptional development of children and youth, learned in 201, as they observe, assist, adapt tests and lessons, and tutor a diverse range of pupils in a field setting.

**210 Introduction to Teaching in a Democratic Classroom (4)**

Prereq: 101. Coreq: 210L. The purpose of this course is to identify the characteristics of a democratic classroom and to develop student skill in the creation of a democratic learning environment. Students examine a variety of teaching models including explicit teaching and cooperative learning, and begin to develop competence in their use.

**210L Introduction to Teaching in a Democratic Classroom Field Experience (2)**

Prereq: 101. Coreq: 210. This practicum accompanies EDTE 210 and provides students with field experience in the classroom. Classroom assignments include observation, tutoring, small-group instruction, and other appropriate preservice experiences.

**220 Phonics and the Structure of Language (5)**

Prereq: admission to Professional Education. Course provides information and training in the foundations of phonics instruction. It explores the historical, linguistic, and instructional framework related to phonics skill development.

**310 Advanced Methods for the Democratic Classroom (4)**

Prereq: admission to CARE program and 210. Coreq: 310L. In-depth exploration of several teaching methods utilized in progressive, democratic classrooms. Builds on introduction to these methods in EDTE 210.

**310L Advanced Methods for the Democratic Classroom Lab (2)**

Prereq: admission to CARE program. Coreq: 310. Field experience utilizing methods gained in EDTE 310.

**325 Literature-Centered Developmental Reading Instruction (5)**

Prereq: 220, adv standing. Provides preparation for teaching of developmental reading in the middle school. The course emphasizes a literature-centered approach to the teaching of reading and emphasizes the development of proficient reading through a stage model of reading. Text and supplementary readings, lecture, demonstration, discussion, multimedia resources, observations and participation in schools, and projects for practical competence are all part of the class procedures.

**331J Educational Research Techniques and Writing (4) (1J)**

Prereq: jr. Concentration upon communication skills of reading, writing, and speaking, utilizing educational writings dealing with history of education, philosophy, psychology, sociology, and current issues. Development of critical reading, effective writing, and speaking skills.

**371A Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Middle (4)**

Prereq: 200, 201, 202. Designed to develop skills needed by educators at the elementary and middle levels to work with learners with exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, instructional and management adaptations, effective collaboration strategies, assessing related and support services, and skills required for instructing in and managing an inclusive classroom.

**371B Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Secondary (4)**

Prereq: admission to adv standing. This course and clinical/field experience are designed

to develop skills needed by educators at the adolescent to young adult level in order to work with learners who have exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modifications, selection and appropriate uses of reading materials, instructional and reading adaptations, classroom management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing and managing an inclusive classroom.

**371C Instructional Adaptations for Learners with Exceptionalities and Diverse Needs—Early (4)**

Prereq: Professional Education and EDSP 271. Designed to develop skills needed by early childhood educators to work with families and learners who have exceptionalities and diverse needs in inclusive classrooms. Content includes curriculum modification, instructional and management adaptations, effective collaboration strategies, accessing related and support services, and skills required for instructing and managing an inclusive classroom.

**420 Teaching Reading in the Content Area (4)**

Prereq: adv standing. Materials, methods, and techniques for teaching adolescent learners of various abilities. Emphasis on diagnosis of reading difficulties and adaptation of materials and teaching methods for content area instruction. Lab included as part of the lecture class.

**421 Foundations of Reading Instruction, Diagnosis, and Remediation for Classroom Teachers (4)**

Prereq: 220, adv standing. Designed to provide classroom teachers a theoretical and practical understanding of the foundations of reading instruction, diagnosis, and remediation. An exploration of these foundations as they affect a wide diversity of students. Includes practical hands-on opportunities for evaluating, assessing, and remediating one student's reading ability.

**422 Diagnosis and Treatment of Reading Disabilities (4)**

Prereq: EDSE 420 or EDCI 421 or EDEC 421. Correlates of variability in reading proficiency. Incidence of retardation and disability. Proposed causes of failure and concept of multiple causation. Specialized materials and instructional efforts. Systematic observation of causes of reading disability and preparation of case report.

**423 Reading Laboratory Practicum (4, max 12)**

Prereq: sr, 422. Application of developmental approach to problem cases in reading instruction, participation in diagnostic examination, parent and teacher conferences, individual procedures in tutoring, staffing of cases and preparation of report (weekly group discussion period, lab sessions arranged).

**465 Introduction to Teaching the Talented and Gifted (4)**

Provides introduction to rationale, scope, and nature of concerns relative to education of gifted youth. Attention given to overview of problems and issues; including (A) societal factors that influence programs, (B) characteristics and identification of gifted youths, and (C) current and recommended programs.

**492 Workshop in Curriculum and Instruction (0.5-15)**

Prereq: perm. Staff. Designed to provide practicing teachers and other instructional personnel with in-service education directed toward their identified needs. Facilitates offering of short courses, work-shops, and summer institutes. Areas of concentration currently available: (A) Language Arts, (B) Social Studies, (C) Science, (D) Mathematics, (E) Reading, (F) Kindergarten, (G) Individualizing Instruction, (H) Team Teaching, (I) Interaction Analysis, (J) Developing Behavioral Objectives, (K) Curriculum Development, (L) Interdisciplinary Topics, (M) Special Topics, (N) Special Education Topics, (O) Supervision of Instruction, (P) Education for Gifted.

**492K Workshop in Curriculum and Instruction (2)**

Prereq: 101, 210, 310. An in-depth examination and synthesis of information learned in both special CARE classes and in general education classes with emphasis on how this information can be used in the classroom and integrated into the future teacher's teaching strategies.

**Education Cultural Studies (EDCS)**

**301 Education and Cultural Diversity (3)**

Prereq: admission to Professional Education. Requires students to observe, analyze, and reflect upon the advantages and problems associated with teaching in a culturally diverse environment. Students study the influences of cultural diversity on education in the United States and develop the skills and attitudes that help them adjust curriculum and instruction to culturally diverse groups.

**400 School, Society, and the Professional Educator (4)**

Studies the social, philosophical, ideological, and historical foundations of K-12 education in the United States as they apply to both practical and theoretical issues for the professional educator. Four questions guide inquiries into the foundations of education: Why do we educate? For whom is education intended and designed? What are the personal, social, and cultural effects of education? Who bears the institutional responsibility for education?

**Education Computer Technology (EDCT)**

**203 Technological Applications in Education (4)**

Prereq: Admission to Professional Education. Focuses on the use of technology to increase the effectiveness, efficiency, and appeal of instruction to diverse learners. Major emphasis is given to instructional computing for production and presentation.

**Early Childhood Education (EDEC)**

**206 Introduction to the Integrated Curriculum (4)**

The purpose of this course is to introduce the undergraduate students in early childhood to the integrated curriculum for young children between the ages of three and eight years. The relationship among how young children learn, what they find in their environment and the integration of their curricula is examined.

**225 Emergent Reading and Literacy (4)**

Prereq: EDCI 220. Emphasizes the development of reading and literacy from a global view of language, thinking, and learning. Attention is given to methods and materials with emphasis on the use of literacy within the framework of age and individual appropriateness.

**306 Teaching Strategies and Transitions for Young Children (3)**

Prereq: adv standing.

**319 Reading and Literature in the Early Childhood Classroom (5)**

Prereq: EDCI 220. Designed for undergraduate students seeking licensure in early childhood. Focuses on the development of reading and the role of literature in that process.

**330 Teaching Young Children Mathematics (3)**

Prereq: jr., admission to Professional Education. Coreq: 330L. Examination of methods and materials appropriate for teaching mathematics to young children. Emphasis placed on using developmentally appropriate experiences to provide for diversity of learners, including those with disabilities. Designed to be taken concurrently with 330L.

**330L Teaching Young Children Mathematics—Field (1)**

Coreq: 330. Application of concepts and skills from EDEC 330. Students observe and teach mathematics lessons in appropriate settings under the supervision of the course instructor.

Students demonstrate proficiency in the use of mathematical models and manipulative teaching aids.

**340 Teaching Science for Young Children (4)**

Prereq: adv standing in teacher education; 12 hours of science; completion of one course in each of the following science areas: Life, Physical, Earth. Coreq: EDEC 340L. Emphasis on constructivist science teaching through hands-on inquiring processes. National Standards examined and applied. Science equipment, instructional resources and technology, and safety procedures emphasized.

**340L Teaching Science for Young Children—Lab (1)**

Coreq: 340. Will apply material learned in 340 in lab setting.

**350 Teaching Social Studies in Early Childhood (3)**

Prereq: Early Childhood major, adv standing. Coreq: 350L. The foundation of social studies is to help students gain new understandings of the world through discourse and activities which emphasize applications to authentic issues and problems of human society. Problem solving, critical thinking, analysis, negotiation and collaboration are part of the teaching of social studies.

**350L Teaching Social Studies in Early Childhood—Field (1)**

Prereq: Early Childhood major, adv standing. Coreq: 350. Field experience in classrooms for three year olds through third grade. Will apply the theory and application learned in 350 throughout the quarter.

**421 Observing Young Children for Reading Strategies and Skills (2)**

Prereq: 225, EDTE 220. Coreq: 421L. Learn to observe children, keep running records and conduct an informal reading inventory. Appropriate instruction is based on these assessment procedures. Learn to record results for reporting to parents and other appropriate adults.

**421L Observing Young Children for Reading Strategies and Skills—Lab (2)**

Coreq: 421. Lab experience accompanying 421.

**Educational Administration (EDAD)**

**452 Problems in Administration of Education (1-4)**

Prereq: perm. Variable topic course for independent study, institutes, and workshops.

**Educational Media (EDM)**

**201 Use of Library Resources I (3)**

Designed to acquaint students with resources available in academic library. Students learn analyze information needs and to develop systematic approach toward solution.

**397T Media Tutorial (1-15)**

Prereq: Honors Tutorial College and perm.

**International and Comparative Education (EDIC)**

**205 Learning from Non-Western Cultures (4)**

Prereq: soph or perm. Exploration of alternative "ways of seeing" and "ways of knowing," esp. in cultures of the non-Western world (i.e., Africa, Asia, Latin America). Building skills in personal investigations of life and learning in other cultures.

**420 Comparative Cultures and Education (4)**

Prereq: perm. Emphasis on distinctive cultural, economic, and political forces which shape patterns, problems, and roles of education in some selected developed and developing nations. These include U.S., some European countries, and at least one African and/or Asian nation where former or present Western culture has impact. Assessment of this impact especially on educational developments.

**425A Education and Development in Africa (4)**

Prereq: perm. Interdisciplinary course focusing on tradition and change in African societies, problems of political independence, economic development, cultural values in transition, tribalism and nationalism, and role of Africa in world peace and international cooperation. Tradition and change in African education, landmarks in African educational developments, and role of education in economic and technological development. Issues and problems in African education.

**425B Education and Development in Asia (4)**

Prereq: perm. Same emphasis as 425A on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

**425C Education and Development in Latin America (4)**

Prereq: perm. Same emphasis as 425A–425B on tradition and change in society, culture, and education, and role of education in national development and international understanding; discussion of pertinent educational issues and problems.

**450 Teaching Strategies for Cultural and International Understanding (4)**

Prereq: sr, perm. Psychological and sociological foundations of cultural values and ways of life investigated. Strategies for developing cross-cultural understanding and cooperation studied. Emphasis on innovative approaches to learning for elementary and secondary school pupils.

**Middle Childhood Education (EDMC)****300 Middle Childhood Instructional Process and Curriculum (4)**

Prereq: admission to adv standing. Furthers understanding of the middle child and the middle school. Lecture, activities, and field experiences revolve around developmentally appropriate teaching, context based assessment, supportive learning theory and application, and structure of the middle school.

**301 Middle Childhood Education and Curriculum (5)**

Prereq: 300. Specifically designed for middle childhood preservice teachers with a focus on social foundations of teaching and learning, with emphasis on middle childhood curriculum, middle school organization, and structure.

**310 Teaching Language Arts in the Middle Childhood Grades (4)**

Prereq: 300 or 301. Provides basic information in language development, oral and written language, and language mechanics. Provides strategies for teaching the language modes through an integrated approach. Stresses assessment in authentic settings.

**310L Teaching Language Arts in the Middle Childhood grades (lab 1)**

Coreq: EDMC 310. Lab experience accompanying 310

**321 Children's Literature for Middle Childhood (4)**

Prereq: admission to adv standing. This course treats the body of literature by genre, appropriate for children from eight to fourteen years. It includes various techniques for utilizing children's literature in school settings.

**330 Teaching Mathematics in Middle Childhood Grades (4)**

Prereq: 300 or 301, admission to adv standing. Coreq: 330L. Familiarizes preservice educators with the mathematics curriculum of grades 4–9 and with instructional techniques appropriate for the delivery of the curriculum. The course provides a solid foundation in teaching and learning applied to mathematics, complemented by rich experiences in working with students in actual school settings. Designed to extend

preservice teachers' understanding of mathematical content and methodology so that mathematics instruction is seen in terms of active students making appropriate use of technology in learning math as a relevant and coherent body of knowledge, which relates to diverse cultures. The course is designed to be taken concurrently with middle childhood lab course.

**330L Teaching Mathematics in Middle Childhood Grades-Field (1)**

Coreq: 330. Application of concepts and skills from 330. Observe and teach mathematics lessons in appropriate settings under the supervision of the course instructor. Demonstration of proficiency in the use of mathematical models and manipulative teaching aids.

**340 Teaching Middle-Level Science (4)**

Prereq: 300 or 301; 22 hrs in science. Coreq: 340L. Emphasis on concepts and inquiry processes for middle-level children as recommended by the National Science Education Standards. Topics include scientific literacy; applied constructivist learning theory; multicultural, gender, and exceptional learner equity practices; authentic assessment of the middle-level learner; safety and classroom management; uses of curriculum supplements and multimedia resources; effective questioning skills; and selection of appropriate uses of texts and demonstration.

**340L Teaching Middle-Level Science-Lab (1)**

Coreq: 340. Lab experience accompanying 340.

**350 Teaching Social Studies in Middle Childhood Grades (4)**

Prereq: 300 or 301. Coreq: 350L. The foundation of social studies is to help students develop new understandings of the new world through discourse and activities that emphasize applications to authentic issues of human society. Problem solving, critical thinking and analysis, negotiation and collaboration are part of the teaching of social studies content. Using national and state standards, course emphasizes integrated social studies for curriculum organization in grades 4–9.

**350L Teaching Social Studies in Middle Childhood-Lab (1)**

Prereq: 300 or 301. Coreq: 350. Field experience in 4th–9th grade classrooms will apply the theory and application learned in 350 throughout the quarter.

**490 Independent Study (1–5)**

Prereq: adm to EDMS Program, jr. Independent study provides the student an opportunity to focus on some special interest, concern, problem, research, and/or advanced study in a particular field under staff guidance. Suggested readings and other resources depend upon need and interest of the individual; frequent conferences; preparation of final report.

**Professional Laboratory Experience (EDPL)****360 Field Experience in Elementary or Secondary Schools (2)**

Prereq: jr, perm. Observation and participation in elementary and secondary schools. Prior approval must be secured from Field Experience Office in May for those planning experiences in August–September period and in November for those planning participation in December. May be repeated.

**361 Field Service in Education (2)**

Prereq: soph. Participation in community agencies, summer camps, recreation programs, Head Start, and various school-related programs. Arrangements must be made in Field Experiences Office prior to participation.

**458 Student Teaching in Early Childhood (7)**

Assigned responsibility for teaching under supervision of master teacher in classroom in preschool through third grade for one quarter, full time. Concurrent registration for EDPL 458, 459, and 456 is required of all early childhood education majors for full time student teaching experience.

**459 Student Teaching in Early Childhood (6)**

Continuation of EDPL 458. See 458 for description.

**460 Observation and Participation in Elementary or Secondary Schools (3)**

Prereq: perm. Extensive participation in school program extending over period of one quarter, designed primarily for students with some classroom teaching experience, especially students from other countries.

**461 Student Teaching in Middle Childhood (7)**

Prereq: perm. Assigned responsibility for teaching under supervision of master teacher in classroom in 4–9 range for 1 qtr, full-time. Concurrent registration in 461, 462, and 465 is required of all middle childhood education and intervention specialist majors. Concurrent registration in 461, 463, and 465 is required of majors in arts, music, and physical education.

**462 Student Teaching in Middle Childhood (6)**

Prereq: 461. Continuation of 461. See 461 for description.

**463 Student Teaching in Secondary Schools (6)**

Prereq: perm. Assigned responsibility for teaching under supervision of master teacher in classroom in 7–12 range for one quarter, full-time. Concurrent registration in 463–464–465 is required of all majors in secondary academic areas, home economics, and industrial arts. Majors in art, music, and physical education must register concurrently for 461, 463, and 465.

**464 Student Teaching in Secondary Schools (7)**

Prereq: 463. Continuation of 463. See 463 for description.

**465 Student Teaching Seminar (3)**

Analysis and interpretation of student teaching experience. Problem-centered discussion of major areas of concern directly related to classroom teaching. Structured discussion of unit and lesson planning, evaluation, classroom management, pupil adjustment, effects of recent legislation upon classroom teacher, position procurement, professional ethics, and professional organizations. Concurrent enrollment for 13 quarter hours credit in student teaching required.

**466 Student Teaching for Advanced Students (6–9, max 9)**

Prereq: perm. Supervised observation, participation, and limited teaching; open only to elementary education degree candidates and selected secondary education and special education with a minimum of three years of prior teaching experience.

**Secondary Education (EDSE)****297T Secondary Education Tutorial (1–15)**

Prereq: Honors Tutorial College and perm.

**298T Secondary Education Tutorial (1–15)**

Prereq: Honors Tutorial College and perm.

**299T Secondary Education Tutorial (1–15)**

Prereq: Honors Tutorial College and perm.

**350 Secondary School Planning and Instruction (4)**

Prereq: adv standing. Designed to enable preservice educators to design, implement, evaluate, and reflect upon the processes of secondary school teaching and learning. Course focuses on systematic planning, methods of direct instruction, and effective classroom interaction. Course is specifically designed around the four domains of Praxis III with particular focus placed upon domain A—organizing content—and domain B—creating a learning environment—with emphasis on content area reading skills applied to textbook analysis and readability. Analyses used for planning appropriate instruction. Course includes clinical and field experiences in secondary schools.



**351 Secondary School Teaching and Learning (5)**

Prereq: EDSE 350 and EDCI 371B. Extends upon the content of 350. Using the Ohio model curricula, the course explores secondary school curriculum development and assessment. The course helps preservice teachers to build a repertoire of teaching strategies by exploring methods of induction, inquiry, and constructivism. Praxis III domains are addressed in student-developed learning units and modules, which are field tested in school classrooms prior to student teaching in the same setting. Particular emphasis is given to domain C—teaching for student learning—and domain D—professionalism—with emphasis given to uses of content area reading skills for improving instruction. Skills supplement specific methodologies taught in the course. Course includes a 2 credit hour lab scheduled with EDCI 371B.

**397T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 297T and 299T

**398T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 297T and 299T.

**399T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 297T and 299T.

**440 Secondary School Science Methods (4)**

Prereq: 351; jr; perm. Coreq: 440L. Study of curriculum and teaching goals; preparation of inquiry-based lessons; uses of technology in science instruction; science safety, studied and practiced. Written and verbal evaluation of teaching; critiques of instructional resources; creation of a science teacher professional development plan.

**440L Secondary School Science Teaching Lab (2)**

Prereq: 351; jr; perm. Coreq: 440. This practicum experience in approved school settings enables University students to teach school science students, building from small group instruction to extended teaching of entire classes. College students also participate in science fairs, contests, and olympiads.

**479 Teaching of the Social Studies in Junior and Senior High Schools (4)**

Prereq: 351. Nature, development, purpose, and value of social studies, with emphasis on methods and techniques of instruction. Curriculum reorganization, unit planning, materials of instruction, and evaluation.

**490 Studies in Secondary Education (1-5, max 15)**

Prereq: perm of dept chair. Honors students or students seeking honors in secondary education may register for this course.

**497T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 397T.

**498T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 398T.

**499T Secondary Education Tutorial (1-15)**

Prereq: Honors Tutorial College and perm; 397T and 399T.

**Special Education (EDSP)****260 Field Experience in Special Education (Block II) (4)**

Prereq: Block I and adv standing. Serve 80 hours as a special education teacher's assistant; follow the teacher's directions and instructional plans for working with pupils until given the responsibility to develop your own plans which may be appropriate near the end of the quarter.

**271 Introduction to Education of Exceptional Children and Youth (4)**

Comprehensive survey of special education programs emphasizing multidisciplinary approach, integration, and current trends in providing instruction to persons with exceptionalities, and

legal rights under the Individuals with Disabilities Education Act are covered. Clinical and/or field experience is included. Middle level, secondary, and special education majors should not register for this course, but should enroll in the Sophomore Block (EDCI 200, 201 and 202). This class is required for early childhood education majors. No credit for both 271 and EDCI 201.

**272 Introduction to Education of Mentally Retarded Children and Youth (3)**

Etiology, diagnosis, classification, learning potential, and general characteristics of children with mental retardation with an emphasis on psychosociological impact of retardation upon individual, family, and community.

**355 Technological Applications in Special Education (4)**

Prereq: Block I. Develop knowledge and experience necessary to use microcomputers and other technology with persons who have special needs. Consideration is given to the functionality of hardware, software, and peripherals available for use with these individuals. A focus will be on the concerns of special education teachers in using Computer Aided Instruction and other technology with students including: compensation for sensory, physical, communication, and learning handicaps.

**360 Field Experience in Special Education/ Mild to Moderate Educational Needs (4)**

Prereq: Block II. Provides a minimum of 80 direct field hours of practical application of concepts and skills introduced in special education in the prerequisite and current block courses; direct observations, planning, and teaching persons with mild to moderate educational needs under the supervision of a cooperating teacher and University supervisor.

**361 Field Experience in Special Education/ Moderate to Intensive Educational Needs (4)**

Prereq: Block II and adv standing. Provides a minimum of 80 direct field hours of practical application of concepts and skills introduced in special education in the prerequisite and current block courses; direct observations, planning, and teaching persons with moderate to intensive educational needs under the supervision of a cooperating teacher and University supervisor.

**370 Classroom Management of Learners with Special Needs (4)**

Prereq: Block II. Emphasizes applied behavioral techniques to reduce behavioral problems, maximize learning, and increase pupil and teacher rapport for students with mild to moderate educational needs. Procedures will move systematically from teacher control to shared control with learner to learner self-control techniques. Course content and activities also focus on the study of student needs and behaviors with identification of selected management methods. Management techniques are explained, demonstrated, practiced in class, applied in school, and reported in a class seminar and in writing. The course continues to develop teacher skills applicable in field teaching, student teaching, and professional teaching.

**371 Teaching the Preschool Handicapped (3)**

Prereq: Block II or perm. Purpose, organization, and methods utilized for preschool children with special needs. Variety of program models and delivery systems covered.

**373 Curriculum Planning for Learners with Special Needs (4)**

Prereq: Block I and adv standing. Development of a curriculum rationale; a philosophy; a model; skills in curriculum analysis; selection, development, and adaptation of curricula, instructional plans, and materials fitting to the goals of the school and the needs of exceptional

learners in special and regular classrooms. Skills are developed in planning a school curriculum, a classroom curriculum, a unit of study, lesson plans, and selection of instructional materials.

**374 Nature and Needs of Learners with Mild to Moderate Educational Needs (5)**

Prereq: Block I and adv standing. A comprehensive review of the nature and needs of learners with mild to moderate educational needs. A cross-categorical orientation is followed, with an emphasis on the characteristics of the traditional high incidence disability areas of specific learning disabilities, emotional/behavior disorders, and mild mental retardation. Topics include etiology; definitions; culturally sensitive identification and assessment procedures; educational services; cognitive, academic, and social-emotional characteristics; life span ramifications; and current issues in the field.

**376 Methods for Learners with Mild to Moderate Educational Needs (5)**

Prereq: Block III and adv standing. Organization and methods of teaching including selection, planning, and teaching of appropriate unit based, project based, problem based, community based, cooperative, inquiry and constructive learning with emphasis on implementation of current theory and research to strengthen personal-social-vocational adjustment of children with mild-moderate disabilities. Specific techniques will be presented and practiced on how to develop, remediate, or compensate for student learning disabilities, learning styles, learning modalities, working styles, study skills, and intelligences.

**377 Career Development and Transition Planning for Learners with Special Needs (4)**

Prereq: Block II and adv standing. A comprehensive overview of the continuum of vocational options at the secondary and postsecondary levels. Procedures for preparing children and adults with exceptionalities to fulfill their career roles as family members, community residents, as well as workers also will be examined.

**378 Principles of Work for Persons with Disabilities (3)**

Prereq: 271 or 272, or EDCI 201, or perm. Development of skills for understanding and application of agency mission, work values, plant layout, production flow, work site analysis, ergonomics, adaptive fixturing, time study, scheduling, work motivation, quality control, safety, evaluation, and records to enhance sheltered or community employment programs for persons with disabilities.

**379 Principles of Habilitation Programming for Persons with Disabilities (3)**

Prereq: 271 or 272 or perm. Development of skills used in selecting what to teach and planning to teach by using objectives, organization, methods, materials, and programs essential to teaching self-care, homemaking, family, and community skills to adults with disabilities.

**401 Interventions for Students with Emotional and Behavioral Needs (4)**

Prereq: Block III. Development and teaching of intervention strategies for students with mild to intensive educational needs who experience emotional and behavioral difficulties. Specific methods in the areas of behavioral interventions, positive behavioral supports, social skills training, psychoeducational techniques, assessment, collaboration, crisis intervention and communication skills. Related skills in functional behavior assessment and developing behavior intervention plans are covered.

**460 Field Experience in Special Education—Mild to Moderate Educational Needs (4)**

Prereq: Block III and adv standing. Field-based experience designed to provide supervised practical experience through tutoring children or youth with mild to moderate educational support needs in the public school setting. Field experience includes diagnostic-prescriptive teaching in areas of reading, arithmetic, and language arts.

**461 Field Experience in Special Education—Moderate to Intensive Educational Needs (4)**

Prereq: Block III and adv standing. Practical application of concepts and skills introduced in the special education Block IV courses: supervising, managing, and teaching persons with moderate to intensive educational needs.

**463 Field Experience in Special Education—Early Childhood Special Education (3)**

Coreq: 371. Field-based experience designed to provide supervised practical experience in early childhood special education.

**473 The Nature and Needs of Learners with Moderate to Intensive Educational Needs (5)**

Prereq: Block I and adv standing. Analyses of etiologies, characteristics, and assessment of learners, with mental retardation, physical and sensory impairments, medical and behavioral disabilities. Medical, behavioral, social, communicative, assistive devices, psychosocial aspects, legal, ethical, cultural, family, self-determination, and advocacy issues are studied in relation to the characteristics and needs of learners from birth to adulthood with moderate to intensive educational needs.

**475 Methods and Materials for Teaching Persons with Moderate to Intensive Educational Needs (5)**

Prereq: 473, Block III, and adv standing. Design and application of multifaceted/transdisciplinary assessment procedures, curricular adoption/development, IEP transition, technology planning, proficiency testing/alternatives, instructional strategies including age appropriate, functional, and community reference skills; use of positive behavioral supports; educational, adaptive equipment, assistive devices, and instructional materials to promote self-determination. Methods are applied through case-based instruction, hands-on participation, and cooperative teaming.

**477 Consultation and Collaboration in Special Education (4)**

Prereq: Block III and adv standing. Comprehensive overview and development of professional competencies related to collaboration and consultation in special education. Content includes the consultation process, communicating with professionals and parents, working in teams, legal and ethical issues, interagency and interdisciplinary collaboration, and collaborating with families of students with special needs.

**485 Diagnosis and Evaluation of Children with Disabilities (4)**

Prereq: Block II. Covers the traditional and non-traditional methods of assessment, screening and classification, collection and appropriate application of clinical data utilizing laboratory and field experiences.

**490 Study of Special Education (1-5, max 15)**

Prereq: Perm of area coordinator. Independent analysis of problems, special interests, concerns, with assigned and suggested readings, programmed experiences, and preparation of final report, with guidance of faculty member.

**Electronic Media (EM)****formerly Radio-Television (RTV)**

The following courses are available only at the Zanesville, Southern, and Lancaster campuses for the A.A.S. in electronic media:

**101 Introduction to Electronic Media (3)**

(fall) Overview of field, facilities, student responsibilities, and career expectations in electronic media.

**122 Radio-Television Performance (4)** (spring) To provide overview of responsibilities required for radio and television announcing, and to provide practice and performance situations necessary to develop proficiency in performance skills.

**189 Electronic Media Workshop—Non-Majors (1-3)**

Short course in specific topics in electronic media applications. Emphasizes hands-on practice on such subjects as visual composition, camcorder operations, video editing, lighting, audio editing, and media digitization. Intended for non-majors.

**209 Topics in Radio-Television Engineering (3, max 18)**

Intensive study of all functions of electronics as they relate to topics in field. Prepares students who complete all topics to take FCC General Class and/or SBE exams required for broadcast engineering positions. Lab time included with instruction on operation of test equipment and facilities maintenance.

**211 Audio Production-Direction (4)** (winter) Principles of basic radio production and development of criteria for evaluation of radio production. 2 lec, 4 lab.

**214 Advanced Audio Production/Performance (2, max 4)**

Prereq: 211. (fall, spring) Innovative techniques for production and performance of audio materials. Investigation and analysis of audio production development, and individual problems.

**216 Introduction to Video Production (4)** (spring) Principles of basic television production and development of criteria for evaluation of television production. 2 lec, 4 lab.

**217 Advanced Video Production (2, max 4)**

Prereq: 216. (winter, spring) Applications of studio and field production with emphasis on innovative techniques.

**257 Advertising in the Broadcast and Cable Media (4)**

(winter) Introduction to principles and practices of advertising and selling of time in electronic media situations. Format includes substantial instruction and interaction with individuals employed in station sales departments, and preparation of materials for sales strategies and campaigns.

**267 International Media Systems (4)** Surveys the role of the media in representative foreign countries. Media are examined relative to their structure, function, patterns of use, regulation and control, and relationship to other systems. Culture, politics, history, economics, geography, educational levels, and other aspects of the countries will be discussed.

**288 Electronic Media Workshop—Multimedia**

Prereq: 219 Production of multimedia related assignments, monitored and supervised by Electronic Media faculty. Requires minimum number of assigned tasks per week during the term.

**289 Broadcast Workshop (1, max 6)**

Prereq: EM major. (fall, winter, spring) Production of technically related assignments monitored and supervised within broadcast related services of OU-Zanesville. Requires minimum number of assigned hours of tasks per week during school terms.

**290 Radio-Television Internship (1)**

Prereq: EM major. Approved assignments in area radio, TV, cable, or media production facilities. Requires contract of duties and time commitment between coordinator, student, and employee. Written evaluation required for course completion.

**298 Independent Study (1-4, max 4)**

Prereq: EM major, written proposal, and perm. Research projects requiring self-directed study and completion of paper or production relating to electronic media. (May be repeated up to 4 qtrs.)

**Electronics Technology (ETCH)**

The following courses for the A.A.S. in electronics technology are available on the Lancaster and Southern campuses:

**110 Basic Electronics (4)**

Prereq: MATH 101, 102, or higher placement. Introductory knowledge of electricity and solid state electronics. Basic electrical terms, units, symbols, schematics, and code. Fundamentals of alternating current and direct current electricity. Ohm's Law applied to series and parallel networks. Inductance and capacitance theory. Test equipment used for troubleshooting. Fundamentals of solid state theory and application. Operating characteristics of diodes, transistors, and I.C.s. Concludes with introduction to computers and microprocessors. 2 lec, 4 lab.

**111 AC and DC Circuit Analysis (4)**

Prereq: 110, MATH 113, or perm. AC and DC electrical circuits. Application of network theorems to circuits containing resistors, capacitors, inductors, and transformers emphasized. 2 lec, 4 lab.

**112 Industrial Electronics (4)**

Prereq: 111 or perm. Advanced study of solid state devices, their operating characteristics, and circuit analysis. Transistor amplifiers, bias, impedance matching and classes of operation, integrated circuit theory, and application. 2 lec, 4 lab.

**120 Digital Electronics (4)**

Prereq: 111 or perm. Comprehensive study of pulse and digital circuits used in industry. Wave shaping, switching circuits, trigger circuits, nonsinusoidal oscillators, and sequencing systems. Digital concepts, Boolean algebra, logic circuits, memory circuits, arithmetic unit, and logic application to electronic control circuits. Field trips part of lab activity. 2 lec, 4 lab.

**134 Direct Current Circuit Analysis (5)**

Prereq: 110 or perm. Direct current electrical theory, application, and circuit analysis. 3 lec, 4 lab.

**135 Alternating Current Circuit Analysis (5)**

Prereq: 134 or perm. Alternating current electrical theory, application, and circuit analysis. Sinusoidal wave forms, inductive reactance, resonance circuits, and RC circuits. Power transformers and polyphase systems. Power generation and distribution. 3 lec, 4 lab.

**140A-J Power Distribution Systems (1-5, max 5 each segment)**

Prereq: 135 or perm. (A) residential electrical wiring, (B) commercial electrical wiring, (C) industrial electrical wiring, (D) National Electrical Code, (E) low-voltage wiring, (F) high-voltage systems, (G) fire alarm systems, (H) electrical safety, (I) electrical blueprints and specifications, (J) new developments in power distribution.

**220 Electrical Motors, Control Circuits, and Computers (4)**

Prereq: 111 or perm. Industrial power rotating machines and computer control. Motor principles, classification, and application. Motor control circuits, single phase, 3 phase systems, relays, and overload protection. Testing and maintenance procedures. Field trips part of lab activity. 2 lec, 4 lab.

**221A Programmable Controllers, Instrumentation and Process Control I (4)**

Prereq: 220 or perm. A study of process control including transducers and controller principles. Emphasis on instrumentation, programmable controllers, and analog and digital control of the manufacturing process. 2 lec, 4 lab.

**221B Programmable Controllers, Instrumentation and Process Control II (4)**

Prereq: 221A or perm. Continuation of 221A. Emphasis on process control. 2 lec, 4 lab.

**234 Industrial Electronics and Linear Integrated Circuits (5)**

Prereq: 112 or perm. Theory and application of solid state industrial control. Silicon control rectifiers, photoelectric, differential amplifiers, oscillators, and phase shift controls. 3 lec, 4 lab.

**236A Microprocessor and Computer Basics (4)**

Prereq: 120 or perm. Introduction to computer organization and design, including ROMs, RAMs, microprocessors, instruction sets, hardware, software, and machine and assembly language programming. 2 lec, 4 lab.

**236B Microprocessor and Computer Basics (4)**

Continuation of 236A. Emphasis is on computer interfacing.

**236C Robotics (6)**

Prereq: 236B, MATH 11B; or perm. Introduction to fundamentals of robotics. 3 lec, 6 lab.

**237 Design and Production of Electronic Circuits (3)**

Printed circuit theory, design, application, and fabrication. 2 lec, 2 lab.

**240A-P Electronic Communication Systems (3-5)**

Prereq: 234 or perm. Introduction to various types of communication systems. Includes microwave, R.F., television, audio, and sound systems.

**250 Computer Programming for Electronic Circuit Analysis (3)**

Prereq: 112 or perm. Introduction to high-level language programming for solution of electronic circuit problems. 2 lec, 2 lab.

**260 Data Communications and Computers (4)**

Prereq: 236B or perm. A study of computer communications systems, including telecommunications. Topics include modems, amplifiers, local area networks (LANs), communication standards, and protocols. An introduction to the principles of radio, television, telephone, and digital networks will also be studied. 2 lec, 4 lab.

**288 Personal Computer Maintenance (4)**

Prereq: 236B or perm. Repair and trouble shooting of the personal computer emphasizing the IBM series. Topics will include specifications, documentations, timing diagrams, diagnostic programs, test instruments, logic analyzers, and in-circuit emulation. Other personal computers may be considered. 2 lec, 4 lab.

**289 Electronic Trouble Shooting and Repair (4)**

Prereq: 112 and 120 or perm. Fundamentals of test equipment applications with emphasis on repair of consumer and industrial analog equipment. 2 lec, 4 lab.

**299 Special Problems (1-3, max 9)**

Prereq: perm. Individualized projects or internship experiences under supervision of faculty member in electronics technology.

**Engineering, Chemical (CHE)****100 Introduction to Chemical Engineering (2)**

(fall) Overview of the profession's history, present status, and future opportunities. Goals and details of the curriculum. 2 lec.

**101 Approaches to Chemical Engineering Problem Solving (3)**

Prereq: MATH 263A. (spring) Introduction to goals and methods of problem-solving techniques; uses of computers for calculations, document preparation. Implementation of selected professional software. 3 lec.

**200 Material Balances (4)**

Prereq: 101. (fall, summer) Applications of chemistry, physics, and mathematics to the solution of mass balances. Single and multiple unit systems. Reactions, recycle, and bypass. Single and multiphase systems. 3 lec, 2 rec.

**201 Energy Balances (4)**

Prereq: 200, C or better. (winter, summer) Continuation of 200. Energy balances. First Law of Thermodynamics. Nonreactive and reactive processes. Heats of reaction, formation, and combustion. Phase change operations. 3 lec, 2 rec.

**305 Chemical Engineering Thermodynamics (4)**

Prereq: 201, C or better. (fall) Application of thermodynamics to chemical engineering problems, including problems in chemical equilibrium in homogeneous and heterogeneous systems, mixtures, and pure materials. 3 lec, 2 rec.

**306 Chemical Engineering Phase Equilibria (4)**

Prereq: 305. (winter) Continuation of 305. See 305 for description. 3 lec, 2 rec.

**307 Chemical Reaction Engineering I (3)**

Prereq: 306, 400. (spring) Application of chemical kinetics and material and energy balances to the design of chemical reaction systems. 2 lec, 2 rec.

**308 Chemical Reaction Engineering II (4)**

Prereq: 307, 346, 400. (fall) Continuation of 307. See 307 for description. 3 lec, 2 rec.

**331 Principles of Engineering Materials (4) (2A)**

Prereq: CHEM 122 or 152. (fall, winter, spring, summer) Fundamental principles underlying behavior of engineering materials. Relationship between structure and properties of ceramic, metallic, and polymeric materials. 4 lec.

**345 Chemical Engineering Fluid Mechanics (5)**

Prereq: 201, C or better, MATH 340. (fall) Fundamental principles of fluid flow. Transportation and metering of fluids. Laminar and turbulent flow of fluids in conduits and past immersed bodies. 4 lec, 2 rec.

**346 Chemical Engineering Heat Transfer (5)**

Prereq: 345, 400. (winter) Fundamental principles of heat transfer. Conduction, convection, and radiation heat transfer. Heat exchanger design. 4 lec, 2 rec.

**347 Mass Transfer and Separations (5)**

Prereq: 306, 346. (spring) Fundamental principles of mass transfer. Diffusivities, mass transfer coefficients, stage-wise and continuous-contact unit operations. Absorption, distillation, extraction. 4 lec, 2 rec.

**400 Applied Chemical Engineering Calculations (3)**

Prereq: C or better in 201, MATH 340. (fall) Application of analytical mathematics and numerical methods to the formulation and solution of chemical engineering problems. 3 lec.

**408 Engineering Experimental Design (3)**

Prereq: 305, 345, 400. (winter) Application of engineering analysis and statistics to the design of experiments with particular emphasis on

continuous processes as typically encountered in the chemical and materials areas. 2 lec, 2 rec.

**415 Unit Operations Laboratory I (3)**

Prereq: 307, 347, 408. (fall) Lab practice to illustrate principles of selected unit operations, thermodynamics, and applied kinetics; and to aid student in gaining confidence in handling of chemical engineering equipment. Development of ability to devise and conduct chemical engineering experiments with minimum supervision and to report results satisfactorily will be stressed.

**416 Unit Operations Laboratory II (3)**

Prereq: 308, 347, 408. (winter) Continuation of 415. See 415 for description.

**417 Process Control Laboratory (2)**

Prereq: 442 or with 442. (spring) Laboratory for 442.

**418 Engineering Materials Laboratory (2)**

Prereq: 331. (fall, winter, spring) Demonstrations and experiments supporting relationships which exist between the physical treatment and the structure and properties of materials.

**430 Metallic Corrosion (4)**

Prereq: 331. Basic principles of corrosion including electrochemical foundation, influence of environment, stress, strain, and structure. Selected lab experiments. 4 lec.

**431 Advanced Topics in Materials Science and Engineering (3)**

Prereq: 331. Structure, processing, and applications of ceramics, polymers, and composites. Corrosion and degradation of materials. Electrical, thermal, optical, and magnetic properties of materials. Materials selection and design. 3 lec.

**442 Process Control and Simulation (4)**

Prereq: 308, 346. (winter) Simulation and control of chemical processes. Feedback control using root loci and Bode diagrams covered. 3 lec, 2 rec.

**443 Chemical Engineering Design I (4)**

Prereq: 308, 347, 448. (winter) Preliminary design of a chemical process. Process synthesis, computer flowsheeting, layout, safety, and economics. Involves trips to various chemical plants. Also involves the assessment of skills from explicit and implicit prerequisite courses. 2 lec, 4 rec.

**444 Chemical Engineering Design II (4)**

Prereq: 443. (spring) Continuation of 443. See 443 for description. 2 lec, 4 rec.

**448 Safety in the Process Industry (3)**

Prereq: 307, 347. (fall) Hazard and operability analysis of chemical processes and the subsequent safe operation criteria. 3 lec.

**450 Fundamentals of Materials Analysis (3)**

Prereq: 331 or perm. An overview of both classical and modern techniques of materials analysis. Topics covered include classical optical spectroscopies (IR, FTIR, Raman, UV/VIS), and modern surface techniques, such as AES, XPS/ESCA, and RBS. 3 lec.

**452 Introduction to Transport Phenomena (3)**

Prereq: 347, 400. Integration of fluid flow, heat transfer, and mass transfer into a coherent topic. Origin of general equations and methods of application to specific engineering problems. Introduction to contemporary engineering science. 3 lec.

**460 Atmospheric Pollution Control (4)**

Prereq: 307 or ME 321, or perm. Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques available for measuring particulate and gaseous pollutants in atmosphere and at their sources. Techniques available for control and future possibilities for control of air pollution. Bases for air pollution legislation. 4 lec.



**463 Atmospheric Chemistry (3)**

Prereq: CHEM 153, PHYS 253. Homogeneous chemistry of the lower and middle atmosphere, emphasizing processes by which human activity influences the environment. 3 lec.

**477 Introduction to Polymer Synthesis (3)**

Prereq: 306 or CHEM 454. Polymer structure, reaction mechanics, kinetics, reactors, processing, and properties. 3 lec.

**481 Biochemical Engineering (3)**

Prereq: 308, 347, 400, or perm. Study of processes in chemical engineering that depend on biological systems. Overview of biological basics, enzyme kinetics, major metabolic pathways, cell growth characteristics, essentials of recombinant DNA technology, bioreactor design and control, and an introduction of purification methods. 3 lec.

**482 Topics in Bioseparations (3)**

Prereq: CHE, CHEM, Life Sci sr, or perm. Basic techniques, such as cell disruption, centrifugation, precipitation, micro- and ultrafiltration, various forms of chromatography for the separations of biomolecules, especially proteins, will be introduced. Some emphasis will be placed on preparative and large scale applications. 3 lec.

**483 Biomedical Engineering (3)**

Prereq: jr/sr in engineering, chem, physics, biol. Biomedical engineering with an emphasis on cell and tissue engineering.

**492 Special Investigations (1-3, max 9)**

Prereq: perm. Individual or small-group work, under staff guidance, in research or advanced study in particular field of chemical engineering. (Only three hours of special investigations in any area can be counted towards the CHE technical elective requirement.)

**493 Intercollegiate Design Competition (1-3, max 9)**

Individual or small group participation, under faculty guidance, in regional or national student design competition. (A maximum of three credit hours may be applied toward the CHE technical elective requirement.)

**499 Chemical Engineering Senior Assessment (1)**

Prereq: 443. Assessment of skills, behaviors, and attitudes of students graduating in chemical engineering. Examination of retention from prerequisite courses. Readings and discussion of professional and ethical responsibility, the impact of engineering solutions in a global and societal context, the need for lifelong learning, and knowledge of contemporary issues. 2 rec.

**Engineering, Civil (CE)****200 Civil Engineering Fundamentals (1)**

(spring) Overview of civil engineering profession and specialization areas, value of professional organizations and lifelong learning, introduction to departmental facilities, description of curriculum, and advising responsibilities. 1 lec.

**201 Civil Engineering Computational Techniques (3)**

Prereq: MATH 263A or concurrent (spring) Introduction to methods of problem solving, use of computers for calculations, applications or problem solving to civil engineering. 3 lec.

**210 Plane Surveying (4)**

Prereq: MATH 163 or MATH 253, or perm. (fall, spring) Basic theory and field practice in measurement of distance, elevation, and angle. Introduction to GPS and photogrammetry. 3 lec, 3 lab.

**220 Statics (4)**

Prereq: MATH 263C, PHYS 251. (fall, winter, spring) Laws of equilibrium of forces, friction, centroids, and moment of inertia. 4 lec.

**222 Strength of Materials (4)**

Prereq: grade of C or better in 220. (fall, winter, spring) Simple stresses and strains, bending,

torsion, beam deflection, columns, and combined stresses. 4 lec.

**223 Strength of Materials Laboratory (1)**

Prereq: 222 or with 222. (fall, winter, spring) Testing of various materials under axial compression, tension, flexure, torsion, impact, fatigue. Use of electrical, mechanical, and photoelastic strain measuring equipment. 2 lab.

**311 Route Engineering (3)**

Prereq: 210. (winter) Horizontal and vertical curves; geometric design of highways; earth-work distribution. 3 lec.

**316 Construction Engineering and Management (3)**

Prereq: Jr, (fall). Overview of construction engineering and management, project funding, bidding and selection process, design and construction interface, competitive and negotiated contracts, planning and scheduling, estimation, equipment productivity and safety. 3 lec.

**330 Structural Theory I (5)**

Prereq: C or better in 222. (fall) Determinacy requirements; analysis of statically determinate structures; influence lines; deflections; introduction to analysis of statically indeterminate structures. 5 lec.

**331 Structural Theory II (3)**

Prereq: C or better in 330. (winter) Indeterminacy conditions for structures; slope deflection method; moment distribution method; influence lines; introduction to computer methods. 3 lec.

**340 Fluid Mechanics (4)**

Prereq: C or better in ME 224. (fall, winter, spring) Statics and dynamics of viscous and nonviscous fluids, dimensional analysis and similitude, pipe flow, principles of lift and drag, introduction to boundary layers. 4 lec.

**341 Fluid Mechanics Laboratory (1)**

Prereq: 340 or with 340. (fall, winter, spring) Lab techniques, calibration principles, fluid and flow measurements. 2 lab.

**342 Applied Hydraulics (3)**

Prereq: C or better in 340. (spring) Flow and pressure distribution in multiloop networks, dynamics of flow in pumps and turbines, uniform and nonuniform flow in open channels, culvert hydraulics, hydraulic transients. 3 lec.

**343 Hydrology (3)**

Prereq: 340, ISE 304 or with ISE 304. (spring) Hydrologic cycle. Precipitation and runoff data; groundwater hydraulics; infiltration; peak runoff calculations. Application to water resource problems. 3 lec.

**353 Basics of Environmental Engineering (3)**

Prereq: jr. (spring) Engineering concepts, theory, design, and practice as applied to solution of problems of environmental technologies, waste management, drainage, and control of water, soil, and atmospheric pollution; social and environmental impact of these solutions. 3 lec.

**361 Transportation Engineering (3)**

Prereq: 311. (spring) Introduction to Transportation Engineering with emphasis on transportation planning concepts and multi-modal design elements. 3 lec.

**370 Geotechnical Engineering (4)**

Prereq: 222, 340, GEOL 283, or concurrent with 340. (winter) Soil compositions, physical and chemical properties, and classifications, water movement and seepage problems, consolidation and shear strength; applications to earth structures, retaining walls, slope stability, bearing capacity, and settlement. May be taken as 570 for grad credit except by civil engineers. 4 lec.

**371 Soil Engineering Laboratory (1)**

Prereq: 370 or concurrent with 370. (winter) Classification of soils and determination of their properties through tests, grain size analysis, Atterberg limits, relative density, Proctor testing, permeability, direct shear, and consolidation. 2 lab.

**380 Civil Engineering Materials (3)**

Prereq: 222. (spring) Engineering properties of materials used in civil engineering applications including metals, concrete, timber, and composites.

**400 Societal Concerns in Civil Engineering (2)**

Prereq: senior. (fall) Engineering economy, codes, variances, alternative designs, and public meetings.

**410 Applied Property Surveying (3)**

Prereq: 210. (spring) Triangulation, astronomical observations, land surveying, instrument adjustments, special topics. 2 lec, 3 lab.

**415 Geodetic Surveying (3)**

Prereq: 210 or perm. (winter) Equipment and methods used in aerial photography and land measurement. 2 lec, 2 lab.

**423 Continuum Mechanics (4)**

Prereq: perm. (winter) Matrix methods in mechanics and structures; laws of dynamics; mechanical properties of solids and fluids; basic theories of continuum mechanics. Grad course open to selected undergrads. 4 lec.

**424 Strength of Materials II (3)**

Prereq: C or better in 222. (fall) Unsymmetrical bending, shear centers, columns, energy, and continuation of basic topics usually taught in Strength of Materials I. 3 lec.

**427 Experimental Stress Analysis (3)**

Prereq: 424. (spring) Experimental methods of stress determination including photoelasticity, stress coat, and electric strain gauge techniques; stress analogies; strain rosettes for combined stress determinations. Grad course open to selected undergrads. 2 lec.

**431 Experimental Methods in Structural Dynamics (3)**

Prereq: perm. Modal analysis of structural models to identify their vibration characteristics. Frequency response functions using dual-channel signal analyzers. Mobility measurement techniques. Modal parameter extraction techniques. Computer-aided structural dynamics. Grad course open to selected undergrads. 2 lec, 3 lab.

**432 Structural Design in Concrete (4)**

Prereq: C or better in 330. (winter) Materials and properties; design methods, strength of rectangular sections subject to bending moments, axial loads, and shear forces either separately or in combination; continuity in concrete construction; design of one-way slabs; design of T-sections in bending; deflection calculations; footing design. 4 lec.

**433 Structural Design in Steel (4)**

Prereq: C or better in 330. (spring) Materials and properties; design methods, design of tension members; structural fasteners; design of compression members, beams, trusses, and frames. 4 lec.

**434 Advanced Structural Design (3)**

Prereq: 432 or 433, or perm. (spring) Design of complete structures or major components of structures. 3 lec.

**437 Timber Design (3)**

Prereq: 330. (winter) Material properties and behavior of structural timber. Analysis and design of sawed timber and laminated timber members. Timber construction analysis and design.

**438 Prestressed Concrete Design (3)**

Prereq: 330, 432. (spring) Theory of prestressing. Design and analysis of prestressed concrete beams, slabs, box girders, and bridge girders by elastic and ultimate strength methods.

**439 Computer-Aided Structural Design (3)**

Prereq: 432 and 433, or perm. Analysis and design of complete structural systems constructed from reinforced concrete, structural steel, and/or other applicable materials by using computers. Material reports and cost estimation of projects. 1 lec, 4 lab.

**445 Flow Routing (3)**

Prereq: 342 or perm. (winter) Gradually varied flow computation, the use of computer software programs for flow routing, and their engineering applications.

**450 Water Treatment (3)**

Prereq: 342, 343, CHEM 123. (fall) Sources and collection of public water supplies; principles of treatment processes. 3 lec.

**451 Wastewater Treatment (3)**

Prereq: 342, 343, CHEM 123. (winter) Quantities and collection of municipal wastewater; principles of treatment processes. 3 lec.

**452 Water and Wastewater Analysis (3)**

Prereq: CHEM 123. (fall) Lab methods and interpretation of results for chemical and bacteriological examination of water and wastewater. 2 lec, 3 lab.

**453 Solid/Hazardous Waste Management (3)**

Prereq: sr, perm. (fall) Identification, classification, and study of methods of characterization, handling, treating, managing, and disposal of solid/hazardous wastes regulated under federal and state guidelines and legislation.

**457 Water Resources Engineering (3)**

Prereq: 343 or perm. (winter) Elective sr civil engineering course designed to provide integrated treatment of water resources engineering, including hydrological measurements, runoff, groundwater, water law, reservoir design, frequency analysis, planning, flood control. Systems approach to multipurpose water resource projects emphasized. 3 lec.

**458 Water Quality Engineering (3)**

Prereq: perm. (demand) Natural and man-made characteristics of water quality, changes in quality resulting from use, criteria for control of stream pollution, methods of improving water quality, also legal, economic, and institutional aspects. Grad course open to selected undergrads. 3 lec.

**462 Traffic Engineering (3)**

Prereq: 361; major or perm. (winter) Traffic parameters, traffic data collection, capacity analysis of freeways, signalized intersection design. 3 lec.

**471 Foundation Engineering (3)**

Prereq: 370. (fall) Design and construction problems in soil engineering; subsurface investigation; foundation selection and design criteria; principles of design of shallow and deep foundations; site improvement. 3 lec.

**474 Soil Mechanics Laboratory (1)**

Prereq: perm. (spring) Advanced techniques for measurement of soil engineering properties. Grad course open to selected undergrads. 3 lab.

**482 Paving Materials and Mixtures (3)**

Prereq: perm. (fall) Types, constituents, chemical behavior, tests, specifications, and uses of bituminous materials, Portland cements, and aggregates in pavements. Design and manufacture of paving mixtures and construction of pavements. Grad course open to selected undergrads. 2 lec, 3 lab.

**483 Principles of Pavement Design (3)**

Prereq: perm. (spring) Fundamentals of wheel loads and stresses in pavements. Properties in pavement components and design tests. Design methods and evaluations. 3 lec.

**490 Special Investigations (1-5)**

Prereq: perm. Special investigation or problems not covered by formal courses. Permits well-qualified student to pursue individual study under direction of faculty member.

**491A Senior Design—Land Development (4)**

Prereq: 343, 361, or perm. (fall) An advanced applied engineering course utilizing multiple fundamental civil engineering courses as applied to land development.

**491B Senior Design—Environmental/Water Resources (4)**

Prereq: 450, with 451, or perm. (winter) An advanced applied engineering course utilizing combinations of water/wastewater treatment and hydraulics/hydrology courses as applied to society's needs.

**491C Senior Design—Structures and Foundations (4)**

Prereq: 370 and 432 or 433, or perm. (spring) A civil engineering design elective integrating fundamental civil engineering courses for foundation and structural design, analysis, and drawing.

**491D Senior Design—Special Project (4)**

Prereq: sr and perm. An advanced applied engineering course integrating several major disciplines of civil engineering in a design project.

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**Engineering, Electrical (EE)**
**101 Introduction to Electrical Engineering (4) (2A)**

Prereq: MATH 113 or placement level 2. (fall, winter) The goal of this course is to introduce students to the profession of electrical engineering. Students will develop a knowledge of key technical concepts of electricity: voltage, current, resistance, and power. In addition, students will study the history, professional values, and methods of electrical engineering. Lab work provides hands-on experience with electrical systems. 3 lec, 2 lab.

**102 Introduction to Computer Engineering (4)**

Prereq: MATH 113 or placement level 2. (fall, winter) The goal of this course is to introduce students to the field of computer engineering. Students will develop a knowledge of the fundamentals of Boolean algebra, binary arithmetic, characteristics of logic gates, and flip-flops. Lab work provides hands-on experience with digital systems. 3 lec, 2 lab.

**103 Introduction to Electrical and Computer Engineering Design (4)**

Prereq: EE 101, 102, and CS 210, or 230, or 240A, or ET 181. (fall, spring) The goal of this course is to introduce students to design in electrical engineering. Students will develop an understanding of engineering design principles. Students will also develop a knowledge of microcomputer organization and an ability to perform assembly language programming. Lab work provides students an opportunity to apply design principles on a major project. 3 lec, 2 lab.

**210 Foundations of Electrical and Computer Engineering I (4)**

Prereq: 101 and MATH 263A. (fall, winter) Basic concepts and definitions, units, DC circuit analysis, Kirchhoff's laws, source transformations, nodal and mesh analysis, network theorems, inductance and capacitance, and simple RC and RL circuits with an emphasis on developing problem-solving skills. Students will be expected to have, and be able to demonstrate, a firm "understanding" of these topics as well as a mastery of basic problem-solving skills. In addition, there will be an emphasis on being able to make an effective technical presentation.

**211 Foundations of Electrical and Computer Engineering II (4)**

Prereq: C or better in 210 and MATH 263B. (winter, spring) Continuation of 210. RC and RL circuits, Laplace Transforms, State-Variables, Fourier Analysis, AC circuit analysis, and the frequency domain, with an emphasis on strengthening problem-solving skills. Students will be expected to have, and to demonstrate, a thorough understanding of the frequency domain and how DC circuits, transient circuits, Fourier circuits, and AC circuits can be represented in the s-domain. They will also need to demonstrate a mastery of advanced problem-solving skills. In addition, students will need to effectively communicate, in written form, advanced technical concepts and problems.

**212 Foundations of Electrical and Computer Engineering III (4)**

Prereq: 103, 211, 221. (fall, spring) Advanced AC circuits, polyphase circuits, magnetically coupled circuits, frequency response and filters, two-port circuits, and simple electronic circuits. Students will need to have, and demonstrate, a thorough understanding of the basic fundamentals of electrical and computer engineering and how they relate to more advanced subjects, such as those covered in this course. They will also need to demonstrate a facility with advanced problem-solving techniques. There will be a design project to be performed in the laboratory. 3 lec, 2 lab.

**221 Instrumentation Laboratory (4)**

Prereq: 210, with 211. (winter, spring) Designed to give students a proficiency in using electrical instruments. Emphasis will be on learning how to use instruments, using good experimental technique, and knowing the limitations of various laboratory equipment. Emphasis will also be placed on the proper acquisition, recording, analysis, and reporting of data. Format will include classroom instruction and laboratory work. 2 lec, 4 lab.

**224 Introduction to Digital Circuits and Computer Design (4)**

Prereq: 103, 211. (spring, fall) Microprocessor components, information representation, analysis and synthesis of combinational and sequential circuits, datapaths, pipelining, control units, instruction sequencing and interpretations, instruction set architectures and FPGAs.

**304 Basic Electrical Laboratory I (1)**

Prereq: 313 or with 313. Lab supplement to 313. Basic instruments and circuit measurements. Not open for credit to electrical engineering majors.

**305 Basic Electrical Laboratory II (1)**

Prereq: 304 and/or with 314. Lab supplement to 314. Operation of semiconductor devices, amplifier design, oscillators and digital circuits design. Not open for credit to electrical engineering majors.

**313 Basic Electrical Engineering I (3)**

Prereq: MATH 263B, PHYS 253. (fall, winter) DC circuits, single-phase steady state AC circuits, and the frequency and transient responses of energy-storage networks. Not open for credit to electrical engineering majors.

**314 Basic Electrical Engineering II (3)**

Prereq: 313. (winter) Semiconductor devices, small signal analysis, amplifiers and oscillator circuits, pulse and digital circuits. Not open for credit to electrical engineering majors.

**315 Basic Electrical Engineering III (3)**

Prereq: 313. (spring) Transformers, direct current machines, polyphase induction and synchronous, rotating machines, including equivalent circuits and steady state performance prediction. Not open for credit to electrical engineering majors.

**321 Electromagnetics and Materials I (4)**

Prereq: 212, MATH 440. (winter, spring) Designed to develop in students an understanding of Maxwell's equations through an overview of properties of materials, electrostatics, magnetostatics and electrostatics, and magnetostatics and electrodynamics.

**322 Electromagnetics and Materials II (5)**

Prereq: 321. (fall) Continuation of 321. Discussion of time-varying, electromagnetic fields. Application of field theory to solution of problems from various branches of electrical engineering with emphasis upon physical interpretation. Included are relation of field theory to circuit theory, Poynting's theorem, stored energy and power flow, complex fields and power, TEM waves, uniform plane wave, wave reflection and refraction. Theory and applications of transmission lines.

**333 Intermediate Electrical Engineering I (4)**

Prereq: 211. (fall, winter) Develop an understanding of the relationship between signals and systems. Includes a continuation of the Laplace and Fourier analysis started in EE

211 and modeling of high-order electrical and mechanical systems. Frequency response, Bode plots, and systems design using poles and zeros will be addressed, as well as state equations representation and analysis. Students will also develop an awareness of discrete time systems, difference equations, Z transforms, sampling, and digital filters.

### 334 Intermediate Electrical Engineering II (4)

Prereq: 212, 333. (winter, spring) Develop an understanding of electronic devices including diodes, bipolar transistors, and FETs. Students will also develop an awareness of semiconductor properties and operations, and use this knowledge to design analog circuits. Course includes computer-aided analysis and design.

### 335 Energy Conversion (5)

Prereq: 321. (fall) Basic principles of electromechanical energy conversion. Circuit models and parameter tests for single-phase and 3-phase transformers. Fundamentals of DC machinery; circuit models and characteristics of DC motors. Fundamentals of AC machinery; theory and operation of synchronous machines and induction motors.

### 351 Intermediate Computer Engineering I (4)

Prereq: 212, 224. (fall, winter) Fundamental knowledge and skills for the study and practice of computer engineering. Utilize assembly language loops, tables, lists, and interrupts as well as microprocessor I/O with the PIC microprocessor. Discrete-time signals and systems including convolution, Z-transforms and frequency response.

### 352 Intermediate Computer Engineering II (4)

Prereq: 351, 371. (winter, spring) Theoretical framework for information processing technology concentration, and transmitting discrete and continuous-time signals and data by digital systems and computers. A continuation of EE 351.

### 371 Applied Probability and Statistics for Electrical Engineers (4)

Prereq: 212, or MATH 263D with CS 361. (fall, spring). Fundamentals of statistics and probability and the ability to apply them to problems in electrical engineering.

### 395A Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 102 and CS 240A and junior standing. Enhancement of the laboratory skills of students and to reinforce an understanding of the fundamentals necessary for the execution of successful experimentation. Students will develop a greater awareness of specific topics in electronics, systems, energy conversion devices, power distribution, communications, and electromagnetics. 2 lec, 4 lab.

### 395B Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 395A. Continuation of EE 395A. 1 lec, 5 lab.

### 395C Intermediate Electrical and Computer Engineering Design Experience (4)

Prereq: 395B. Continuation of EE 395B. 8 lab.

### 401 Advanced Laboratory I (1)

Prereq: perm. (fall, winter, spring) Advanced lab format follows that of intermediate lab. Student proposed projects are design or research oriented and directed by faculty member specializing in area of investigation. Portion of this lab required in conjunction with certain electrical engineering 400-level lecture courses.

### 402 Advanced Laboratory II (1)

Prereq: perm. (fall, winter, spring) See 401 for description.

### 403 Library Research (1)

Prereq: perm. (fall, winter, spring) Library research under the supervision of a faculty member. Prior approval required. See departmental office for regulations.

### 405 Physical Electronics (3)

Prereq: 334. (fall) Simplified 1-dimensional band theory of solids. Valence and conduction band occupancy from Fermi-Dirac statistics. Hole conduction and doping. Derivation of PN junction volt-amp-temperature characteristic. DC and AC characteristics of junction transistors derived from fundamentals.

### 406 Advanced Analog Circuits (3)

Prereq: 334. (winter) Advanced analog circuitry. Operational amplifiers, characteristics, limitations. Linear and nonlinear applications. Feedback, stability criteria, compensation, time, and frequency response. Waveform generation and shaping, timing, comparison, and arithmetic operations.

### 407 Advanced Digital Circuits (3)

Prereq: 334. Advanced digital circuitry. Basic logic operations, digital device families, and characteristics. Arithmetic, counting, memory, other MSI and LSI functions. Numeric display devices. Analog/digital conversion.

### 410 Semiconductor Principles I (3)

Prereq: 405. (spring, on demand) Continuation of 405. Application of semiconductor theory to solid state devices: diodes, transistors, FETs and Gunn effect devices. Charge control analysis; Ebers-Moll equations; electro-optical effects.

### 414 VHDL Design (4)

Prereq: perm. (fall) Application of very high speed hardware description languages (VHDL) for digital design, simulation, verification, and specification. Structural design concepts, design tools. VHDL language, data types, objects, operators, control statements, concurrent statements, functions, and procedures. VHDL modeling techniques, algorithmic, RTL, and gate level designs. Design synthesis. 3 lec, 2 lab.

### 415 VLSI Design (4)

Prereq: 334. (winter) Introduction to very large scale integration (VLSI) technology and design of CMOS integrated circuits. VLSI fabrication process, design rules, logic design, performance estimation, chip engineering, and computer aids to VLSI design. Students may register for 2 hours of senior lab (401, 402) credit for the VLSI lab work. 3 lec, 2 lab.

### 416 VLSI Design II (4)

Prereq: 415. Sequential system design, clock generation and clocking disciplines, design validation, sequential testing, standard cell layout, adders, ALUs, multipliers, high-density memory, PLA design, floorplanning, O/I architecture, register transfer design, data-path control, high-level synthesis. 3 lec, 2 lab.

### 425 Control Theory I (3)

Prereq: 333. (winter) Formulation of models for lumped parameter systems, fundamental principles of closed loop control, signal flow graphs, stability, Routh-Hurwitz criterion, root locus construction, specifications, and design via root locus.

### 426 Control Theory II (3)

Prereq: 425. (spring) Simulation, Bode plots, frequency response, performance specifications and relationship to time domain specifications, Nyquist criterion, relative stability measures, closed loop frequency response, analytical design of lead, lag, lag-lead, and PID compensators.

### 427 Control Theory III (3)

Prereq: 426. Sampling and data reconstruction, discrete time systems, z transforms, sampled data systems, frequency response, Nyquist criterion, root locus, bilinear transformation, analytical design of lead, lag, lag-lead, and PID compensators.

### 428 State Variable Methods in Control (3)

Prereq: 425. (fall, on demand) Basic state variable concepts, writing state equations, time domain solution of the state equation and the matrix exponential, relations to transfer functions,

controllability and observability, stability, state variable methods of design including state feedback and state estimation.

### 429 Mechanics and Control of Robotic Manipulators (4)

Prereq: sr. (spring) Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Lab exercises to augment lecture material. Co-listed with ME 429.

### 431 Optoelectronics and Photonics I (3)

Prereq: 321. (winter) Introduction to important modern optical devices and lasers and their applications. Emphasizes basic physical theory needed to understand lasers, their construction, and their applications. Detailed discussion of various types of lasers and their characterization.

### 432 Optoelectronics and Photonics II (3)

Prereq: 431. (spring) Continuation of 431. Additional theoretical material discussed beginning with Maxwell's equations. Examines electromagnetic issues that play major role in laser oscillations—amplification and feedback. Characterization of lasers and continuing discussion of laser types and their applications.

### 433 Optoelectronic Materials and Devices (3)

Prereq: 405. Introduction to modern optical materials and devices utilizing semiconductor technology; optical integration of these devices and their application in diverse fields. Fundamentals of devices and materials emphasized.

### 440 Microwave Theory and Devices (3)

Prereq: 322. (Offered spring every other year.) Wave propagation, transmission lines, Smith chart, impedance matching, waveguides, and survey of devices (microwave generators, semiconductor devices, etc.)

### 441 Antennas (3)

Prereq: 322. (winter) Fundamental concepts and definitions, radiation integrals and potential functions, linear wire antennas, loops, arrays, and personal computer applications.

### 443 Electromagnetics I (3)

Prereq: 322. (Offered winter every other year.) Mathematical review of vector operations in Cartesian and curvilinear coordinates. Solution of wave equation in Cartesian coordinates and application to wave reflection from interfaces between general media. Decomposition of wave solutions into TE, TM, and TEM waves, with application to waveguides and transmission lines; solution of wave equation in cylindrical coordinates, with application to circular waveguide, radiation from line sources, and scattering from cylindrical objects.

### 454 Power Electronics (3)

Prereq: 334. (winter) Introduces seniors to power electronics. Covers most uses of semiconductor devices for the conversion and control of electric power: AC to DC, AC to AC, DC to DC, DC to AC conversions, and DC and AC motor drives. Semiconductor device characteristics (particularly those characteristics not stressed in 340 and 341) and device protection conclude the offering.

### 455 Introduction to Electric Power System Engineering and Analysis I (3)

Prereq: 335. Includes power system representation, computer methods, symmetrical components, protection methods, and stability.

### 456 Introduction to Electric Power System Engineering and Analysis II (3)

Prereq: 455. Continuation of 455. See 455 for description.

### 457 Introduction to Electric Power System Engineering and Analysis III (3)

Prereq: 456. Continuation of 455, 456. See 455 for description.

**461 Digital Systems I (3)**

Prereq: 352. (winter) Postulates and fundamental theorems of Boolean algebra; algebraic and map methods for design of combinational logic and simple sequential circuits; logic minimization methods; introduction to system design using shift registers, counters, etc.

**462 Digital Systems II (3)**

Prereq: 461. (spring) Basic concepts from theory of finite-state machines, analysis and synthesis of sequential circuits, study of state assignment, synchronous and asynchronous machines, and system design using integrated circuits.

**463 Digital Systems III (3)**

Prereq: 462. (spring) Synthesis of sequential circuits using ROMs and RAMs for control logic. Introduction to computer organization and design including selection of instruction set, register and bus organization and implementation of control logic with microprogrammed control.

**467 Advanced Microprocessors (3)**

Prereq: 367. (winter) Organization of 16- and 32-bit microprocessors. Particular attention given to a specific microprocessor family (such as the Motorola 680XY) regarding instruction set, assembly language programming, arithmetic operations, I/O, etc.

**468 Microcomputers II (3)**

Prereq: 467. (fall or spring) Design, implementation, and application of microcontroller or microprocessor based systems. Microcontroller instruction set architectures (e.g. PIC Micro). Fault-tolerant systems. Other topics include but are not limited to hardware interface to external components, serial and parallel input/output (I/O), networks of microcontrollers and embedded microprocessors (e.g. CAN, I2C, TTP, SPI, Ethernet), motor and actuator control. Computer projects emphasize the design and implementation microcontroller-based systems.

**470 Communication Engineering (3)**

Prereq: 333. (fall) Unified approach to communications stressing principles common to all transmission systems. Review of Fourier series. Fourier integral and complex frequency techniques with emphasis on communication networks, time response and convolution, measurement of information, amplitude modulation (double and single side-band techniques), frequency modulation, sampling theory, pulse modulation and digital communications systems, fundamentals of random signal theory and its application to communication systems, noise and its effect on conventional modulation systems; noise figure, noise suppression techniques, and other related topics.

**471 Stochastic Processes in Electrical Engineering (3)**

Prereq: 371. (winter) Brief review of probability concepts, including densities, moments, etc. Random process fundamentals (ensembles and realizations), stationarity concepts, 2nd-order statistics, Gaussian processes, random signal through linear systems, Markov chains.

**472 Introduction to Digital Communications (3)**

Prereq: 470, 471. (spring) Summary review of deterministic and stochastic signal and system characterizations, sampling quantization. Baseband pulse signaling and the matched filter. Introduction to signal spaces and distance concepts. Bandpass modulations and their performance in AWGN. Link budget analysis, synchronization overview.

**478 Introduction to Digital Signal Processing (3)**

Prereq: 333, 371. (on demand) Discrete time signals and systems review, convolution, discrete-time Fourier transform, z-transform, canonical filter representations, windowing, and FFT.

**481 Professional Experience in Electrical Engineering (1)**

Prereq: sr and perm. Supervised work-study program in an electrical engineering profession,

in established industrial environment. Credit dependent on advance registration and mutual agreement between faculty supervisor and participating company. May be repeated; however, hours applied toward graduation limited by department.

**485 Electronic Navigation Systems I (3)**

Prereq: 321, 333. (winter) Principles and theory of operation of electronic navigation systems with emphasis on avionics; aircraft instrumentation, VOR, DME, Inertial, Omega, LORAN, ILS, MLS, Transit, GPS, air traffic control, and radar.

**486 Electronic Navigation Systems II (3)**

Prereq: 485. (spring) Continuation of 485. Focused on current and future avionics systems and aircraft electronics. Design and signal processing in navigation receivers.

**487 Electronic Navigation Systems III (3)**

Prereq: 486. Continuation of 485 and 486 with emphasis on mathematical modeling of navigation and landing systems, fault tolerant avionics system design and architectures, and flight testing and current developments.

**490 Selected Topics (1-6)**

Prereq: perm. Selected topics of current interest in electrical engineering.

**495A Electrical and Computer Engineering Capstone Design I (4)**

Prereq: 44 hours of EE. The goal of this course is to give students the opportunity to refine and demonstrate their ability in engineering design. Students work on a major design project as part of a team with an emphasis on problem definition and specification. They will conduct a preliminary design review. In addition, students will study the systems approach to problem solving, engineering ethics, economic analysis, and the elements of scheduling and planning. 3 lec, 2 lab.

**495B Electrical and Computer Engineering Capstone Design II (4)**

Prereq: 495A. Continuation of EE 495A. Students are expected to continue the design begun in EE 495A with an emphasis on construction, pre-testing, and redesign. They will conduct a critical design review. In addition, students will study and develop skills necessary for a successful engineering career. 1 lec, 6 lab.

**495C Electrical and Computer Engineering Capstone Design III (4)**

Prereq: 495B. Continuation of EE 495B. Students are expected to complete the design developed in EE 495B with an emphasis on final assembly, testing, and analysis of outcomes. They will conduct a formal design review. In addition, the student will be exposed to a variety of career options available to graduates. 1 lec, 6 lab.

## Engineering, Industrial and Systems (ISE)

**304 Applied Engineering Statistics (3)**

Prereq: MATH 163B or MATH 263B. (fall, winter) Introduction to efficient methods for data collection and analysis. Application of basic statistical tests, techniques, and experimental design concepts to engineering and science data problem areas. Not for ISE undergrad majors. 3 lec.

**305 Engineering Statistics I (4)**

Prereq: MATH 263C. (winter, spring) Introduction to probability, concept of random variables, discrete and continuous probability distributions, and expectation.

**306 Engineering Statistics II (4)**

Prereq: 305. Math 211 or concurrent. (fall, spring) Functions of random variables, sampling distributions, estimation theory, hypotheses testing, and statistical prediction.

**330 Engineering Economy (3)**

(fall, winter, spring) Provides knowledge of the economic consequences of engineering decision

processes, and methods for evaluation of engineering design alternatives in terms of costs and benefits. Topics include time equivalence of money, annual cost method, present worth method, rate of return method, depreciation, benefit/cost, break-even analysis, income taxes, equipment replacement and risk.

**333 Work Design (5)**

Prereq: 304 or 305; IT 110. (spring, summer) Design of work systems and measurement of work. Topics include job methods, operation analysis, charting techniques and schematic models, stop-watch time study, work sampling, predetermined time systems, standard data, incentive wage systems, and learning curves. 4 lec, 2 lab.

**381 Internship in Industrial and Systems Engineering (1-3)**

Prereq: jr. Supervised work-study program, in industrial and systems engineering profession, in established industrial or government environment. Credit dependent upon advance registration and mutual agreement between faculty supervisor and participating company. Course may be repeated; however, hours applied for graduation limited by dept.

**402 Manufacturing Systems (4)**

Prereq: sr in ENT. (winter) Applications of industrial and systems engineering techniques, principles, practices, and methodologies as they relate to the operation, analysis, management, planning, and design of manufacturing systems.

**403 Material Handling Systems Engineering (4)**

Prereq: 333. (winter) Provides a broad understanding of materials handling engineering from a system design and application engineering point of view. Instruction in the engineering principles, design criteria, operating parameters, performance requirements, equipment resources, and applications of engineering practices involved in the planning, design, and operation of materials handling systems for manufacturing, physical distribution, and government operations. A materials handling system design project is a required part of the course.

**407 Introduction to Designed Experiments (3)**

Prereq: 304 or 306 or equiv. (spring) Design and analysis of engineering experiments approached from linear statistical model point of view. Blocking designs, full and fractional factorial designs, analysis of variance, and introduction to response surface methodology. 3 lec.

**415 Introduction to Systems Engineering (3)**

Prereq: 305, MATH 340, ET 240. Introduction to systems engineering concepts. Continuous time and discrete time methods for modeling of systems. Systems structure, open-loop and closed-loop systems, positive and negative feedback. State and transition equations. Applications to modeling in manufacturing, production and inventory systems, service industries, physical and biological systems.

**417 Analytical Foundations of Industrial and Systems Engineering (3)**

Prereq: 305. Special analytical techniques introduced for solution of complex industrial and systems engineering problems. Calculus of finite differences. Fourier analysis, and use of transform techniques in linear system analysis discussed. Probability implications of transforms emphasized.

**426 Microprocessor Applications in Manufacturing (4)**

Prereq: 305, ET 181. Use of microprocessor-based devices in manufacturing. Computer numbering systems, digital logic, data communications, programmable logic controllers.

**427 Manufacturing Data Systems (3)**

Prereq: ET 181. (winter) Overview of manufacturing software tools, techniques, and applications. Data base architecture, internal

storage methods. Structured query language (SQL). Normalization. Manufacturing entities and relations.

#### **432 Inventory and Manufacturing Control I (4)**

Prereq: 305. (winter, spring) Design of inventory and manufacturing control systems. Forecasting, continuous and period review inventory systems. Relationship between production schedules and inventory. MRP. Production scheduling systems, sequencing models, dispatching rules. 4 lec.

#### **433 Industrial Computer Simulation (4)**

Prereq: 306, ET 181. (fall) Simulation of industrial engineering systems using discrete event modeling. Process modeling approach to simulation. Basic (entities, processes, and resources), intermediate (queues, seize, and release), and advanced (entity transport) modeling concepts. Statistical analysis of simulation results. Animation of simulation models. Applications of simulation in manufacturing, production, and service areas. Lab projects using simulation software. 3 lec., 2 lab.

#### **435 Quality Control and Reliability (3)**

Prereq: 304 or 306. (winter) Application of statistics to control of quality and reliability in products and services. Design of acceptance sampling and process control systems, including attention to inspection and test methods. Design and implementation of quality assurance programs, including nonstatistical dimension of quality systems. 3 lec.

#### **436 Project Management (3)**

(fall) Development and utilization of network techniques, such as PERT and CPM, to schedule activities, develop financial budgets, allocate resources, and control progress and costs of practical projects. Students introduced to use of available computer programs that generate project schedules. 3 lec.

#### **439 Information Systems Engineering (4)**

Prereq: ET 181. (winter) Design of information systems including data bases, displays, and the automatic storage, retrieval, and transmission of data.

#### **440A Industrial Plant Design I (3)**

Prereq: 330, 333, IT 110. (winter) Introduction to two-quarter program in which students will learn to design a manufacturing facility. First quarter topics include product and process analysis, plant size, layout and location, and building design, estimation of production time for each operation, production scheduling, and inventory control.

#### **440B Industrial Plant Design II (3)**

Prereq: 440A, 433. (spring) Continuation of 440A with team design of a factory and emphasis on selection of process equipment, incentive wage system, quality control system, project management, and layout of facility using both computer and conventional techniques.

#### **441 Introduction to Operations Research (4)**

Prereq: 305. (fall) Basic methods of operations research. Modeling methods, linear programming, Simplex method, integer programming. Random processes, queueing theory.

#### **442 Inventory and Manufacturing Control II (3)**

Prereq: 432. (spring) Just in-time manufacturing, push and pull systems. Performance measurement, classification of manufacturing system performance. Factory dynamics, effect of variability upon production. Variance reduction.

#### **444 Applications of Mathematical Programming (3)**

Prereq: 441, MATH 211. Application areas in operations research and the use of software tools for optimization. Theory of the simplex and interior point methods. Algorithms for linear, mixed integer, and constraint programming. Optimization in industrial and manufacturing systems. Projects using optimization software libraries.

#### **445A Systems Design I (3)**

Prereq: 330, 333, 432, ENG 305J. (winter) Design methodology and principles. Identification and definition of design project.

#### **445B Systems Design II (3)**

Prereq: 445A. (spring) Individual or small-group system design project continued from 445A.

#### **448 Human-Machine Systems (3)**

Prereq: with 407; ET 181, ENG 305J. Role of operator as subsystem in human-machine systems. Design principles for information displays, equipment controls, workplace environments, and life support systems. Design project required. 3 lec.

#### **489 Special Investigations (1-6)**

Prereq: perm. Independent study of a topic in industrial and manufacturing systems engineering under the guidance of a faculty member.

#### **490 Advanced Problems in Computer Applications (1-6)**

Prereq: perm. Special investigations of advanced industrial and systems engineering problems involving use of digital computers.

## **Engineering, Mechanical (ME)**

#### **100 Introduction to Mechanical Engineering (4) (2A)**

(fall, winter, spring) Open to students of all majors. Introduction to the history, professional values, and methods of mechanical engineering. Lab work provides hands-on experience with engineering systems and introduces engineering design, graphical, and computer techniques of problem solving. Discussion of current areas of interest for engineering research and future prospects for technology. No specific mathematics background required.

#### **224 Dynamics (4)**

Prereq: PHYS 251, C or better in CE 220. (fall, winter, spring) Motion of particles and rigid bodies, work and energy, impulse and momentum. 4 lec.

#### **301 Kinematics and Dynamics of Machines (4)**

Prereq: C or better in 224. (winter) Analytical and graphical solutions of motion problems involving mechanical elements: linkages, gears, cams, mechanical trains, etc.

#### **313 Metal Processing (3)**

Prereq: CE 222, CHE 331. (winter, spring) Structure of metals, mechanics of metal forming and metal cutting. Analysis of forces, energy requirements, and temperature effects. Interrelationship between metal processing and mechanical properties.

#### **321 Introduction to Thermodynamics (4)**

Prereq: PHYS 252, MATH 263C. (fall, winter, spring) Basic engineering thermodynamics. Definitions, first law, properties and property relations, second law, availability, and applications to engineering problems.

#### **328 Applied Thermodynamics (4)**

Prereq: C or better in 321. (winter) Nonreactive and reactive mixtures, turbomachinery, analytical studies of gas and vapor power cycles, and refrigeration. 4 lec.

#### **350 Introduction to CAD (3)**

Prereq: jr/sr, ET 240. (fall, winter) Emphasis upon use of the QU Computer Aided Design/Computer Aided Manufacturing System with the following topics covered: Engineering Design System, Engineering Modeling System, 3-D Graphics, 3-D Visualization, Solid Modeling Concepts, and other topics.

#### **398 Junior Laboratory (3)**

Prereq: EE 304. (fall, winter, spring) Introduction to measurement of various phenomena frequently encountered in mechanical

engineering, e.g., strain, temperature, pressure, flow rate, displacement, and acceleration. Emphasis given to interpretation of data and preparation of laboratory reports.

#### **400 Heating, Ventilation, and Air Conditioning (3)**

Prereq: jr. (on demand) Description and evaluation of heating, air conditioning, and total-energy systems employed to provide thermal environments for buildings ranging in scope from residences to integrated commercial, apartment, or industrial complexes. Covers human comfort, psychometrics, load analysis, techniques, equipment, and controls.

#### **401 System Analysis and Control (4)**

Prereq: MATH 340. (spring) Modeling and formulations of physical systems. Transient and steady-state dynamic responses, and other fundamental theory of automatic controls and applications. 3 lec, 1 lab.

#### **403 Machine Design I (4)**

Prereq: CHE 331, C or better in CE 222. (spring) Applications of mechanics, mechanisms, materials, and mechanical processes to design and selection of machine members and units of power transmission.

#### **404 Machine Design II (4)**

Prereq: 403. (on demand) Morphology of engineering design. Applications of statistics and probability and techniques of optimization to design. Team design project.

#### **406 Analysis and Design of Mechanisms (4)**

Prereq: 301. (on demand) Analysis and synthesis of planar and 3-dimensional mechanisms using classical and modern analytical approaches. Structural synthesis of mechanisms, dimensional synthesis of linkages for function generation, path generation, and for rigid-body guidance. Applications of matrix methods, optimization techniques, and computer solutions.

#### **407 Fundamentals of Nuclear Engineering (4)**

(on demand) Nuclear engineering, including nuclear reactions, radiation detection and measurement, reactor criticality, principles of reactor control, radiation shielding, effects of radiation of materials, uses of radioactive materials.

#### **408 Nonlinear Vibrations (3)**

(on demand) Qualitative and numerical study of mathematics and physics of nonlinear systems. Formulations of nonlinear engineering problems, solutions techniques, and stability analysis.

#### **409 Advanced Engineering Dynamics (3)**

Prereq: 224. (on demand) Theoretical analysis and applications of dynamical aspects and problems of machines and systems.

#### **412 Heat Transfer (4)**

Prereq: MATH 340, ET 240, C or better in 321 and CE 340. (spring) Basic concepts of conduction in 1 or more dimensions, steady and transient modes. Radiation, fundamentals of convection in various modes, heat exchanger design. 4 lec.

#### **413 Conduction and Radiation Heat Transfer (4)**

Prereq: 412. (on demand) Advanced analytical treatment of conduction and radiation heat transfer. Boundary value problems, orthogonal expansions, moving heat sources, multi-dimensional problems with time varying boundary conditions, finite difference analysis, conformal transformations, radiation network matrix analysis, diffuse-specular exchange, and Monte Carlo techniques, etc.

#### **416 Combustion (3)**

Prereq: 328 or 412. (on demand) Introduces student to fundamentals of combustion, enables students to analyze complex combustion processes in constructive manner. Modern diagnostic techniques of combustion, and evaluation of pollution potential of different combustion processes.



**417 Design of Thermal Systems (4)**

Prereq: 328, 412. (on demand) Design of systems in which thermodynamics, transport behavior, and optimization techniques are major considerations. Emphasis on total design approach including factors such as cost and reliability. Typical systems include power, propulsion, environmental, and cryogenic. Design project and report required.

**418 Mechanical Engineering Experimentation (1)**

Prereq: ME sr or grad. (on demand) Instruction in experimental procedure and experience in designing and executing lab experiments. Students plan and execute their own experiments to acquire answers to assigned problems. Variety of areas covered including control systems, energy conversion, fluid flow, heat transfer, motion measurements, stress-strain. Instructional guidance provided by entire mechanical engineering staff. Provides familiarity with variety of instrumentation and procedures. Three-quarter sequence with experimental subjects phased with prerequisites.

**419 Mechanical Engineering Experimentation (1)**

Prereq: ME sr or grad. (on demand) Continuation of 418. See 418 for description.

**420 Mechanical Engineering Experimentation (1)**

Prereq: ME sr or grad. Continuation of 419. See 418 for description.

**422 Stirling Cycle Machine Analysis (3)**

Prereq: ET 240, 328, CE 340, with 412. (on demand) Analysis and simulation of Stirling cycle machines, in which the single phase working gas operates in a closed thermal power cycle. Development and use of computer simulation techniques to model the nonsteady flow conditions including thermodynamics, heat transfer, and fluid flow friction effects.

**424 Gas Dynamics I (3)**

Prereq: CE 340. (on demand) 1- and 2-dimensional compressible flow-isentropic flow, flow with heat transfer, friction, shocks, generalized 1-dimensional flow. Applications to propulsion systems. 3 lec.

**425 Propulsion Systems Analysis (4)**

Prereq: 424. (on demand) Applications of basic engineering disciplines to design and analysis of vehicle propulsion systems. Extensive use of digital computers. Term report required.

**427 Power Station Engineering (3)**

Prereq: 328 and 412. (on demand) Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, preheaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, heat balances, and hydro power. 3 lec.

**429 Mechanics and Control of Robotic Manipulators (4)**

Prereq: sr. (on demand) Classification and applications for mechanical manipulator systems. Manipulator motion description, forward kinematics transformations, and solution of inverse kinematics equations. Velocity kinematics and manipulator dynamics equations. Trajectory generation and control schemes including sensory feedback. Laboratory exercises to augment lecture material. Co-listed with EE 429.

**431 Atmospheric Pollution Control (4)**

Prereq: CHE 307, or ME 321 and CE 340, or perm. (on demand) Sources of air pollution from major industries, internal combustion engines, and other sources. Techniques for measuring particulate and gaseous pollutants in atmosphere and at their source. Current techniques and future possibilities for control of air pollution. Bases for air pollution legislation.

**434 Fundamentals of Aerosol Behavior (4)**

Prereq: 328 or 412. (on demand) Aerosol characterization transport properties, convective and inertial deposition, light scattering and visibility, experimental methods, coagulation, gas to particle conversion, general dynamic equation for aerosols.

**435 Energy Engineering and Management (3)**

(on demand) Basic concepts and objectives of energy management, energy audit, engineering evaluation of several energy systems, availability analysis, second law efficiency, economic evaluation, and application of these principles to case studies.

**440 Direct Energy Conversion (4)**

(on demand) General principles of unconventional energy conversion. Thermoelectricity, thermionics, MHD, fuel cells, photovoltaics, wind systems, solar systems, and energy storage.

**446 Potential Flow Theory (3)**

Prereq: CE 340. (on demand) Inviscid flow theory. General equations of fluid dynamics, study of potential flow. Grad-level course open to selected undergrads.

**447 Viscous Flow Theory (3)**

(winter) Mechanics of fluid resistance, laminar and turbulent flow. Applications to external boundary layer flow and to flow in ducts. Grad-level course open to selected undergrads.

**450 Computer-Aided Design (3)**

Prereq: 350 and 403. (winter) Applications of contemporary computer-modeling techniques to solve complex problems in stress, heat transfer, dynamic systems, and fluid flow. Emphasis given to applications of these techniques to solve specific problems in mechanical-engineering design.

**455 Mechatronics I (4)**

Prereq: 224, ET 240, with EE 314. (winter) Principles of design of computer-based, intelligent machines. Microprocessor/microcomputer fundamentals, input-output sensors and actuators, computer achievement of machine kinematics, robot-control techniques, lab experience in microprocessor-machine interfacing.

**456 Mechatronics II (3)**

Prereq: 301, 401, 403, 455 or equiv, EE 314. (spring) Continuation of 455. Design of intelligent machines with emphasis on design for assembly and design for adaptive tasks. Actuator characteristics and control; kinematics, dynamics, and path control of connected links; special requirements of advanced robotics tasks; optical, acoustical, and tactile sensing and control; end effector and workstation fixtures design.

**460 Computer Integrated Manufacturing/Processes (4)**

Prereq: 450. (on demand) Introduction to numerical control: control systems for NC; communication media; NC programming languages—SPPL and APT; mathematics for NC; parametric splines, Bezier Curves, and B Splines; sculptured surfaces including Coons bi-cubic patch and B-surf.

**461 Design for Manufacture (4)**

Prereq: 313, 403. (on demand) Elements of concurrent engineering. Design variables and their influence on manufacture. Effect of manufacturing processes on design decisions. Design for machining, forming, assembly, and inspection.

**462 Manufacturing Processes (4)**

(on demand) The basic theory of plasticity and its application to manufacturing processes. Applied theories of metal working processes such as forging, extrusion, rolling, and some aspects of machining; theories of polymer processing, composite and reinforced materials processing use of application of materials information systems (MIS), and mapping techniques.

**463 Mechanical Behavior and Metallurgy of Materials (4)**

Prereq: CHE 331, sr. (on demand) Relationship of mechanical properties to internal structure, i.e., both microstructure and macrostructure. Micromechanical strengthening mechanisms of metals and alloys. Elastic and plastic behavior. Fatigue and fracture behavior and mechanisms. Single crystal deformation and dislocation theory. Ductile and brittle materials testing. Plastic forming of metals. Quantitative microscopy.

**470 Mechanical Engineering Design I (4)**

Prereq: 328, 403. (fall) This course is the first of a three course sequence that will provide a comprehensive, capstone, senior design experience for mechanical engineering majors. Course includes studies in the analytical techniques of design, as well as the design, construction, and evaluation of the performance of an actual engineering system. ME 470, 471, and 472 must be taken consecutively. 2 lec, 2 lab.

**471 Mechanical Engineering Design II (4)**

Prereq: 470 (winter) This course is a continuation of ME 470 and must be taken in the quarter following the successful completion of ME 470. 2 lec, 2 lab.

**472 Mechanical Engineering Design III (4)**

Prereq: 471 (spring) This course is a continuation of ME 471 and must be taken in the quarter following the successful completion of ME 471. 2 lec, 2 lab.

**475 Solar Design (3)**

Prereq: jr/sr, MATH 263C, PHYS 253, or equiv. (on demand) Introduction to theoretical principles and practical design aspects of solar energy systems. Topics covered include principles of radiation; heating load computation; air and liquid, flat-plate collectors; concentrating collectors; energy storage; photovoltaic conversion; economic analysis.

**480 Colloquium (1)**

Prereq: sr. (on demand) Open presentation of individual engineering analysis or design effort. Requires demonstration of individual analytical or design ability, knowledge of engineering fundamentals (including passing a mini-fundamentals of engineering test), and satisfactory oral presentation techniques.

**484 Projects in Thermal Machinery (3)**

(on demand) Research in thermal machines. Individual work on experimental or analytical project involving current problems. Training in use of library, theory and use of instruments, error analysis, planning of experiments, effective report writing. Students should take two-term sequence to allow adequate time for completion of meaningful project. Report required.

**485 Projects in Thermal Machinery (3)**

Continuation of 484. See 484 for description.

**486 Projects in Thermal Machinery (3)**

Continuation of 484–485. See 484 for description.

**489 Special Investigations (1–6)**

Prereq: perm.

**491 Mechanical Vibrations I (4)**

Prereq: C or better in 224, MATH 340, ET 240, sr. (fall) Characteristic phenomena of mechanical vibrations encountered in machines and structures (of 1 degree of freedom) and their quantitative investigation. Simple harmonic motion; free, transient, and forced vibrations; and damping effects.

**492 Mechanical Vibrations II (4)**

Prereq: C or better in 491. (spring) Application of matrix methods; 2 degrees of freedom systems; lumped mass systems with several degrees of freedom, and methods for normal mode determination. 4 lec.

**493 Lubrication and Bearing Analysis (3)**

(on demand) Concepts of boundary, hydrostatic, and hydrodynamic lubrication. McKee, and Boyd and Raimondi methods. Solid lubrication, porous bearings, and gas bearings.

**494 Advanced Machine Design (3)**

(on demand) Advanced considerations in design and analysis of machine members, strength under combined stress, thermal stress, fatigue in metals, and design using plastics. 3 lec.

**495 Introduction to Kinetic Theory and Statistical Thermodynamics (4)**

(on demand) Kinetic theory, classical and quantum statistical mechanics with applications to engineering devices. 3 lec.

**496 Experimental Methods in Design (3)**

Prereq: 403. (on demand) Investigation and evaluation of experimental methods that may be used to obtain design and performance data. Techniques of photo-elasticity, strain measurements, and vibration measurement.

**497 Methods of Engineering Analysis I (4)**

Prereq: MATH 340. (on demand) Applications of matrices, Fourier series, partial differential equations, and Bessel functions.

**498 Senior Laboratory (3)**

Prereq: 398, 412, 403 or concurrent. (fall, winter, spring) Mechanical engineering experiments. Measurement of the behavior of more complex systems encountered in mechanical engineering. Equal emphasis given to mechanical systems and to thermal and fluid systems. Engines, vibrating systems, wind-tunnel experiments, refrigeration systems, fatigue, multidimensional stresses, and combustion are typical subjects for investigation.

**499 Senior Design Project (4)**

Prereq: 404 or 417, and perm. (fall, winter, spring) Capstone design project in mechanical engineering. Self directed or group project which requires typical design activities such as decision making, feasibility evaluation, technical analysis, performance summary, technical report preparation, and oral technical presentation. Projects may be individually arranged with a faculty member in mechanical engineering or a group project (current examples are the Mini Baja Vehicle Contest or the Walking Robot Contest). Subject matter can be mechanisms, thermal/fluid systems, control systems, etc. Oral final presentation to senior class and panel of faculty required.

## Engineering and Technology (ET)

**181 Computer Methods in Engineering I (4)**

Prereq: MATH 263A or 163A, preference given to ET or pre-engineering majors. Introduction to application of digital computation for solution of engineering problems, with emphasis on methodology and organization. Problem formulation and solution in terms of an object oriented programming approach using the C++ language in an interactive network environment.

**190 Cooperative Education Field Experience I (1)**

Prereq: perm. Required of, and limited to, students on approved co-op work assignments. Prior approval required before a student registers. Credit earned is not applicable toward specific degree requirements, but will accumulate in the student's academic credit total. In addition to continual monitoring of student's progress by the cooperative education coordinator and the faculty advisor, participating students are required to submit a final report of their activities.

**240 Computer Methods in Engineering II (4)**

Prereq: ET 181, CS 210, CS 230, or CS 240A, and MATH 340 or with MATH 340. Introduction to application of digital computation techniques to engineering problems including applied numerical methods. Study and use of the MATLAB programming language as an analytical tool.

**280 Engineering and Technology—Overview (4) (2A)**

Intended for students of all majors, non-Engineering Technology students are encouraged. Provides an overview of engineering and technology, to place the profession in a historical context, to examine the views of supporters and detractors, to examine moral and ethical issues associated with the profession in society, and to develop an appreciation for the manner in which engineering and technological work is conducted. Emphasizes a "problem solving"

approach to questions of all kinds, but more specifically to technological ones.

**290 Cooperative Education Field Experience II (1)**

Prereq: perm. See 190.

**320 History of Western Technology (3) (2A)**

Survey of significant technological innovations of Western civilization from Greco-Roman period into 20th century. Interrelationships, in history, between technology and society. Background in technology or science not required.

**322 Introduction to Materials Behavior (3)**

Introductory materials science course covering behavior of metals, polymers, and ceramics for nontechnical majors.

**325 Pollution Solutions I (3)**

Understanding current air pollution problems, their causes, effects, and possible solutions and impact of those solutions on society.

**326 Pollution Solutions II (3)**

Same course description as 325 covering different aspects and topics. Not a continuation of 325.

**331 Fluid Dynamics for Nonengineers (3)**

Prereq: jr. Not open to engineering students. Physical, not mathematical, introduction to principles controlling fluid motions in our environment. Study of weather, flood circulation, aerodynamics, river hydraulics, and rocketry through design of golf balls and plumbing systems included. Introduction to mechanics, fluid properties, fluids at rest and in motion. Lectures and reading assignments supplemented with films.

**334 Water Pollution Control (3)**

Prereq: soph, nonengineering students. Designed for student with limited technical background but who is interested in problems of water pollution. Deals with nature of water, source and character of pollutants, technology of wastewater renovation, ecology of water pollution, and legal, economic, and administrative constraints.

**337 Transportation Today (3)**

Prereq: jr or perm, not open to civil engineering majors. Designed for student with limited technical background who is interested in gaining knowledge in area of highway and transportation planning and design. Major topics include geometric factors, traffic studies, modes of transportation, human equation, and planning strategies.

**350 Engineering and the Technological Society (3) (2A)**

Prereq: jr or sr. Technical inventions and social inventions, impact and social consequences of engineering public policy issues, ethical considerations, and some exploration of alternative futures. Discussion and lecture format used.

**390 Cooperative Education Field Experience III (1)**

Prereq: perm. See 190.

**400 Professional Engineering Fundamentals Review (2)**

Prereq: sr. Review of basic engineering principles. Provides a compact review of basic engineering principles and illustrated by practical solutions.

**445 Advanced Numerical Methods (4)**

Prereq: ME 497 or equiv. (winter) Numerical methods for solution of ordinary and partial differential equations, stability considerations and error estimates, application to variety of engineering problems, numerical method of lines and integration procedures for stiff ODE systems.

**470 Energy and the Environment (3) (2A)**

(on demand) Technical, economic, political, and environmental factors in energy production. Conventional, gasification, synfuels, fusion, fusion, solar, wind, and possible future conversion techniques. Course designed to provide understanding needed for intelligent

participation in societal decisions related to energy issues. (Equiv to MATH 445.)

**490 Cooperative Education Field Experience IV (1)**

Prereq: perm. See 190.

**495 Leadership Seminar (4)**

Prereq: ET major, perm. Through selected readings, class presentations, discussions, and case studies, students will seek an understanding of leadership and its importance and effectiveness in achieving goals with followers. Successful leaders in engineering and other fields will visit the class and share their knowledge of leadership. Several written reports and oral presentations on leadership case studies will be required during the term.

## English (ENG)

**150 Developmental Writing Skills (4)**

Prereq: placement or recommendation. Credit for 150 will not be given to any student who has already passed any other English course. Develops skills through attention to coherence, mechanics, syntax, and writing conventions. Does not satisfy Tier I or Arts and Sciences humanities requirement. (Nonnative speakers take 150A.)

**151 Writing and Rhetoric I (5) (1E)**

Prereq: fr or soph only; 150, or 151 placement into requested or earlier quarter or into 152/3. Practice in composing and revising expository essays which are well organized, logically coherent, and effective for their purpose and audience. Topics from personal experience or nonfiction reading. (Nonnative speakers take 151A.)

**152 Writing and Reading (5) (1E)**

Prereq: fr and soph only. Same as 151, except that topics are developed from reading and discussion of fiction, poetry, and/or drama.

**153 Writing and Reading: Special Topics (5) (1E)**

Prereq: fr and soph only. Similar in structure, genres, and purposes to 152, but each section uses readings and/or clips focused on a specific theme chosen by the instructor. Recent themes include the environment, the Viet-Nam war, the social outsider, *The Brothers Karamazov*, and popular culture.

**153A Writing and Reading: Gender (5) (1E)**

Prereq: fr and soph only. Same as 152 except that topics are developed from readings depicting women and men in literature. Students examine and write about how, in both literature and life, women and men see themselves and each other, how people learn what society expects of them, and about such topics as sexuality, marriage, friendship, and rebellion against culturally imposed sexual roles.

**153B Writing and Reading: African American Experiences (5) (1E)**

Prereq: fr and soph only. Same as 152, except that topics are developed from readings examining various experiences of African Americans in America, from earlier writings up to and emphasizing contemporary literature, including fiction, poems, essays, and autobiographies.

**200 Introduction to Literature (4) (2H)**

Prereq: 151 or 152 or 153 or 153A/8. Approaches to reading and interpreting fiction, poetry, and drama using skills, techniques, and language or interpretation. Intended for nonmajors.

**201 Critical Approaches to Fiction (4)**

Close textual analysis of fiction, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

**202 Critical Approaches to Poetry (4)**

Close textual analysis of poetry, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

**203 Critical Approaches to Drama (4)**

Close textual analysis of drama, development of critical vocabulary, and introduction to the variety of current methods of responding to literature. Intended for majors.

**203A Interpretation of Drama (Film) (4)**

Prereq: 151 or 152 or 153 or 153A/B. Critical study of film and literature, e.g., film adaptations of literary classics, films made by literary authors, etc. May not be taken to fulfill major requirement of two courses from 201, 202, 203.

**204 Introduction to International Literature I: The Classical Tradition (4) (2H)**

Prereq: one course above 199. Texts which exemplify the classical sensibility in Western literature.

**205 Introduction to International Literature II: Romantic Tradition (4) (2H)**

Prereq: one course above 199. British, American, and Continental texts which exemplify the Romantic tradition in Western literature.

**206 Introduction to International Literature III: The Modern Tradition (4) (2H)**

Prereq: one course above 199. Texts which express the modern sensibility in Western literature.

**210 Critical Approaches to Popular Literature (4)**

Prereq: one course above 150. Introduction to techniques and criticism in works where serious and popular literature meet, e.g., mysteries, science fiction, westerns.

**250 Principles of Textual Analysis (4)**

Offers undergraduates considering the English major a thorough grounding in textual analysis and critical terminology. Emphasis on generalizable reading strategies rather than investigation of a particular topic.

**270 Special Studies: Individual or Comparative Authors (2-3)**

Prereq: one course above 150. Intensive study of individual or comparative authors: (A) Medieval, (B) Renaissance, (C) Restoration and 18th-century, (D) 19th-century American, (E) 19th-century British, (F) 20th-century American, (G) 20th-century British, (H) Continental.

**271 Special Studies: Selected Themes or Topics in Literature (2-3)**

Prereq: one course above 150. Intensive study of selected theme or topic: (A) poetry, (B) fiction, (C) drama, (D) comparative genres, (E) language, (F) stylistics and rhetoric, (G) literature and film, (H) gay and lesbian, (I) man and books.

**277T English Tutorial (1-10)**

Prereq: approval from Department of English tutorial director; arts and sciences major. Fall quarter, first year.

**278T English Tutorial (1-10)**

Prereq: approval from Department of English tutorial director; arts and sciences major. Winter quarter, first year.

**280 Expository Writing and the Research Paper (4)**

Prereq: one course above 150. Practice in library research, techniques of documentation, and writing research papers.

**297T English Tutorial (1-15)**

Prereq: HTC student. Fall quarter, first-year course in two-year tutorial sequence.

**298T English Tutorial (1-15)**

Prereq: HTC student. Winter quarter, first-year course in two-year tutorial sequence.

**299T English Tutorial (1-15)**

Prereq: HTC student. Spring quarter, first-year course in two-year tutorial sequence.

**301 Shakespeare: The Histories (4)**

Prereq: two courses from 201, 202, 203 or jr or sr.

**302 Shakespeare: The Comedies (4)**

Prereq: two courses from 201, 202, 203 or jr or sr.

**303 Shakespeare: The Tragedies (4)**

Prereq: two courses from 201, 202, 203 or jr or sr.

**304 English Bible (4)**

Prereq: one course above 150. Selected prose and poetry of the Hebrew and Christian scriptures.

**305J Technical Writing (4) (1J)**

Prereq: jr and completion of first-year composition. Preparing clear, functional reports; presenting data for experts and other specialized audiences. Documents include, but are not limited to, proposals; information reports (progress, feasibility, inspection, completion); and descriptions of mechanisms and technical processes.

**306J Women and Writing (4) (1J)**

Prereq: jr and completion of first-year composition. Practice in developing essays on women and their interests, on women and writing, and on gender issues.

**307J Writing and Research in English Studies (4) (1J)**

Prereq: jr or sr; two courses from 201, 202, 203. Scholarly writing in English studies: research reports, integration of primary and secondary texts, library resources, and MLA/Chicago documentation. Prerequisite for ENG 399, which is required of all English majors.

**308J Writing and Rhetoric II (4) (1J)**

Prereq: jr or sr and completion of first-year composition. Focuses on skills in writing expository prose, with regular practice and evaluation supplemented by attention to published prose and concepts of rhetoric and style.

**Note: Majors must complete 307J before taking more than two of the following eight survey courses:**

**311 English Literature to 1500 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of Old and Middle English literature.

**312 English Literature: 1500-1660 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of Renaissance English literature.

**313 English Literature: 1660-1800 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of Restoration and 18th-century English literature.

**314 English Literature: 1800-1900 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of Romantic and Victorian English literature.

**315 English Literature: 1900 to Present (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of British literature from 1900 to the present.

**321 American Literature to 1865 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the colonial period through the Civil War.

**322 American Literature: 1865-1918 (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the end of the Civil War to the end of World War I.

**323 American Literature: 1918 to Present (4)**

Prereq: two courses from 201, 202, 203. Authors, works, and genres of American literature from the end of World War I to the present.

**325 Women and Literature (4)**

Prereq: one course above 199 and jr or sr. Surveys work of significant women writers.

**326 Lesbian and Gay Literature (4)**

Prereq: one course above English 150. Surveys lesbian, gay, bisexual, and transgendered (LGBT) literature with an emphasis on how LGBT identities and experiences have been represented in post-1900 literary discourse.

**327 African American Fiction (4)**

Prereq: one course above 150. A selection of major fiction by African American authors.

**328 African American Poetry (4)**

Prereq: one course above 150. A selection of major poetry by African American authors.

**329 African American Drama (4)**

Prereq: one course above 150. A chronological survey of major drama by African American authors.

**331 Studies in Asian Literature (4) (2C)**

(fall) Introduction to cultural background of Asian literature.

**332 Studies in Asian Literature (4) (2C)**

(winter) Continuation of 331. Study of classical Asian literature.

**333 Studies in Asian Literature (4) (2C)**

(spring) Continuation of 332. Study of modern Asian literature.

**335 The Ohio University Writers (4)**

Faculty writers at OU visit classrooms to read and discuss their works.

**336 McGuffey Lectureship in Literature (1-4)**

Prereq: one course above 150. Special series of lectures by current McGuffey Visiting Professor of English. Lectures offered determine credit hrs assigned.

**342 English and Continental Literature (4)**

Prereq: one course above 150. Authors, themes, and genres in English and European literature.

**349 History of Books and Printing (4)**

Prereq: one course above 150. Introduction to history of the book and its place in development of Western culture from ancient world to present. Approach is primarily historical, cultural, and aesthetic.

**350 Traditional Grammar, Mechanics, and Usage (4)**

Prereq: one course above 150. Grammatical understanding and awareness of relationships in sentence structure, usage, and punctuation.

**351 The History of the English Language (4)**

Prereq: jr or sr. Course examines changes affecting English; sound patterns, grammatical forms, vocabulary, and semantic values.

**352 The Development of American English (4)**

Prereq: jr or sr. Regional and social varieties of American English.

**353 The Structure of American English (4)**

Prereq: jr or sr. Study of English grammar using a linguistic model chosen from contemporary linguistic theories.

**356 Young Adult Literature (4)**

Prereq: two courses from 201, 202, 203. Historical development, and philosophical and aesthetic bases of literature for young adults.

**361 Creative Writing: Fiction (4)**

Prereq: 200 or 201. Beginning course in writing short fiction with emphasis on invention, craft, and criticism of student writing and published fiction.

**362 Creative Writing: Poetry (4)**

Prereq: 200 or 202. Beginning course in writing poetry with emphasis on invention, craft, and criticism of student writing and published poetry.

**363 Creative Writing: Nonfiction (4)**

Prereq: 200 or 201. Beginning course in writing nonfiction with emphasis on invention, craft,



and criticism of student writing and published nonfiction.

### 377T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Spring quarter, first year.

### 378T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Fall quarter, second year.

### 393 Creative Writing Workshop: Short Story (4)

Prereq: 361. Instruction and practice in fiction writing, concentrating on narrative, character, and setting.

### 394 Creative Writing Workshop: Poetry (4)

Prereq: 362. Instruction and practice in poetry writing.

### 395 Creative Writing Workshop: Nonfiction (4)

Prereq: 363. Instruction and practice in writing nonfiction prose, with attention to fictionalized biography and literary essays.

### 397T English Tutorial (1-15)

Prereq: HTC student. Fall quarter, second-year course in two-year tutorial sequence.

### 398T English Tutorial (1-15)

Prereq: HTC student. Winter quarter, second-year course in two-year tutorial sequence.

### 399 Literary Theory (4)

Prereq: two courses from 201, 202, 203; 307J; two courses from 310-323. Required of majors before 460, 464, 465, and 466. Recent issues in literary theory and the study of literary texts.

### 399T English Tutorial (1-15)

Prereq: HTC student. Spring quarter, second-year course in two-year tutorial sequence.

### 430 American Literature (3)

Prereq: enrollment in Inst. Amer. Cult. Modern and contemporary American literature as part of the annual summer institute in American Culture for Austrian Students and Teachers.

### 441 Colloquium (4)

Prereq: sr. (fall) Specific interdisciplinary problems to be assigned each quarter.

### 442 Colloquium (4)

Prereq: sr. (winter)

### 443 Colloquium (4)

Prereq: sr. (spring)

### 445 Special Studies (4)

Prereq: sr.

### 447 Studies in Criticism (4)

Prereq: sr. Problems in critical theory

### 451 Teaching Language and Composition (3)

Prereq: sr. advanced standing in professional education. Content and methods of presentation for teaching language and composition in high school. Not applicable to Arts and Sciences 200-level requirement

### 451L Field Experience in Secondary English/ Language and Composition (1)

Prereq: sr. concurrent with 451. Field experience to provide practical applications of materials, methods, and techniques of language and composition instruction as appropriate in various secondary school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.

### 452 Teaching Literature (3)

Prereq: sr. advanced standing in professional education. Content and methods of presentation for teaching literature in high school. Not applicable to Arts and Sciences 200-level requirement

### 452L Field Experience in Secondary English/Literature (1)

Prereq: sr. concurrent with 452. Field experience to provide practical application of materials, methods, and techniques of literature instruction as appropriate in various secondary school settings. Students will observe classroom teachers and carry out various instructional tasks as the cooperating teachers deem appropriate.

### 453 Studies in World Literature (4)

Prereq: 399. Examines contemporary world literature with an emphasis on non-Western texts (i.e., African, Indian, Latin American, Eastern European, etc.) to let students explore various cultural voices. Investigates cultural diversity through close analysis of texts. Addresses current literary discussions on decolonization, the postcolonial condition, eurocentrism, displacement, and multiculturalism. Intended for students in secondary education program.

### 455 English Education Workshop (1-5)

Prereq: teaching certificate or equiv. or perm. Studies in principles, problems, approaches, and issues in teaching English from elementary school to post-secondary. Topics vary.

### 456 Readings in Children's Literature (4)

Prereq: one course above 199. Historical development of children's literature; philosophical and aesthetic bases.

### 457 Readings in English Education (4)

Prereq: jr or sr. Recent developments in English education and application to teaching of jr and sr high school English.

### 460 Literary Topics (4)

Prereq: 399 and sr. Concentrated attention to one literary topic, e.g., a genre, theme, rhetoric, or literary theory. Topics are announced quarterly in the departmental course description booklet available in Ellis Hall.

### 464 Major English Authors (4)

Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

### 465 Major American Authors (4)

Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

### 466 Major International Authors (4)

Prereq: 399 and sr. Authors to be studied vary section to section, quarter to quarter, and are announced quarterly at preregistration in the departmental course description booklet available in Ellis Hall.

### 477T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Winter quarter, second year.

### 478T English Tutorial (1-10)

Prereq: approval from Department of English tutorial director; arts and sciences major. Spring quarter, second year

### 481 Form and Theory of Literary Genres: Fiction (4)

Prereq: 8 hrs creative writing. Theoretical considerations of fiction.

### 482 Form and Theory of Literary Genres: Poetry (4)

Prereq: 8 hrs creative writing. Theoretical considerations of poetry

### 483 Form and Theory of Literary Genres: Nonfiction (4)

Prereq: 363, 395, and perm. Theoretical considerations of nonfiction

### 486 Advanced Workshop in Fiction (4)

Prereq: 393 and perm in advance

### 487 Advanced Workshop in Poetry (4)

Prereq: 394 and perm in advance

### 490 Independent Reading (1-15)

Prereq: perm. Directed individual reading and research.

### 497T English Tutorial (1-15)

Prereq: HTC student. (fall) Thesis.

### 498T English Tutorial (1-15)

Prereq: HTC student. (winter) Thesis.

### 499H Honors Project (5-15)

Prereq: perm. Completion of individual writing project for A.B. with honors in English.

### 499T English Tutorial (1-15)

Prereq: HTC student. (spring) Thesis.

## Humanities (HUM)

### 107 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works.

### 108 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (winter) Medieval and Renaissance classics of Western civilization. See 107 for further description.

### 109 Humanities—Great Books (4) (2H)

Prereq: fr and soph only. (spring) Modern classics of Western civilization (18th-20th centuries). See 107 for further description.

### 117 Humanities—Great Books of the Orient (4) (2H)

Prereq: fr and soph only. Masterpieces (both ancient and modern) of India, China, and Japan, leading toward understanding of Oriental culture.

### 307 Humanities—Great Books (4)

Prereq: jr and sr only. (fall) Ancient classics of Western civilization (Greek, Roman, Biblical) leading toward understanding of cultural heritage. Guidance in critical thinking, reading, and writing about those works. (Credit not allowed for both 107 and 307.)

### 308 Humanities—Great Books (4)

Prereq: jr and sr only. (winter) Medieval and Renaissance classics of Western civilization. See 307 for further description. (Credit not allowed for both 108 and 308.)

### 309 Humanities—Great Books (4)

Prereq: jr and sr only. (spring) Modern classics of Western civilization (18th-20th centuries). See 307 for further description. (Credit not allowed for both 109 and 309.)

## Environmental and Plant Biology (PBIO)

### 100 The World of Plants (4) (2N)

(fall, winter) A. Trese. For nonscience majors. Survey of variety of plants and how they affect and are affected by humans. 4 lec.

### 100L The World of Plants with Laboratory (5) (2N)

(fall, winter) A. Trese. Same lecture as 100 with additional laboratory to provide practical experience with plants and topics discussed in lecture. 4 lec, 2 lab.

### 102 Plant Biology (5) (2N)

(fall, winter) For nonscience majors. Not offered on the Athens campus. Structure of seed plants as related to function. Survey of plants, with emphasis on life histories, reproduction, and relationships of selected plant groups. Credit not allowed for both 102 and 111. 4 lec, 2 lab

### 103 Plants and People (4) (2A)

Interrelationships of plants and humans from both historical and modern points of view, origins of agriculture and civilization, tropical and temperate food plants, medicinal plants, drug plants, destruction of environment, and its ultimate effect on food plants. 3 lec, 1 disc

**109 Americans and their Forests: Ecology, Conservation and Policy (4) (2N)**

(fall, spring) *G. Matlack, K. Brown*. The course provides an understanding of modern forests encompassing both recent and long-term effects arising from natural and human causes. The pattern and character of forest utilization will be interpreted in terms of varied cultural experiences in different regions and times. 4 lec.

**114 Cellular Foundations of Plant Biology (5) (2N)**

(fall) *S. Wyatt*. The course is an introduction to the concepts of plant physiology and cellular and molecular biology that are the foundation of all biological processes. Topics include DNA structure and function leading to genetics and evolution, theories of the origins of life leading to cell structure and function, and bioenergetics. The lab provides supplemental information and hands-on activities to reinforce the lecture topics. No credit if PBIO 110 or BIOS 170. 3 lec, 4 lab.

**115 Plant Structure and Development (4) (2N)**

(spring) *G. Rothwell*. For plant biology and other science majors, preprofessional students and science modular students. Introduction to structure, growth, development, and reproductive biology of plants with emphasis on flowering plants. No credit if PBIO 102 or 111. 3 lec, 2 lab.

**209 Plant Ecology (4) (2N)**

(winter) *B. McCarthy, K. Brown*. Basic concepts, theory, and applied aspects of plant ecology. Focus on the interactions of plants with their environment (biotic and abiotic) over a range of spatial and temporal scales. No credit if PBIO 425. 4 lec.

**210 Plant Physiology (4)**

prereq: PBIO 110 or 114 or BIOS 170; PBIO 111 or 115 (winter) *J. Smith*. The regulation of plant growth and development by internal and external factors, the acquisition of water and nutrients by plants, and the movement of water and solutes through plants. No credit if PBIO 424. 3 lec, 2 lab.

**211 Diversity of Life (5)**

prereq: PBIO 110 or 114 or BIOS 170 or BIOL 101 (winter) *P. Cantino*. For plant biology and other science majors, preprofessional students, and science modular students. Survey of life cycles, morphology, and phylogeny of major groups of organisms, with emphasis on plants, fungi, and protists. No credit if PBIO 111. 3 lec, 4 lab.

**220 Woody Plants (4)**

(summer) Not intended for plant biology majors. Introduction to identification of woody plants, and to the use of keys in plant identification. Credit not allowed if 248 completed. 2 lec, 4 lab.

**225 Flowers (4)**

(summer) Not intended for plant biology majors. Identification of local flowers and discussion of the role of flowers in their natural environments. Credit not allowed if 309 completed. 2 lec, 4 lab.

**248 Trees and Shrubs (Dendrology) (4)**

(fall) *P. Cantino*. Identification, nomenclature, classification, ecological relationships, and importance to humans of native and introduced woody plants. 2 lec, 4 lab, supplementary field trips.

**297T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (fall)

**298T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (winter)

**299T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (spring)

**307 Morphology of Algae and Bryophytes (6)**

Prereq: 111 or 211. (spring, even years) *M. Vis-Chiasson*. Comparative studies of structure, evolutionary relationships, life histories, and reproduction of selected representatives of major groups of algae and bryophytes. 4 lec, 4 lab.

**308 Morphology of Vascular Plants (6)**

Prereq: 111 or (115 and 211). (fall) *G. Rothwell*. Diversity of vascular plants as reflected by structural, developmental, and reproductive features of major groups; emphasis on evolution of diversity through systematically significant adaptations. 3 lec, 6 lab.

**309 Plant Systematics and Ohio Flora (6)**

Prereq: 111 or 211. (spring) *P. Cantino*. Principles and methods of systematics and taxonomy; classification, floral biology, and evolution of flowering plants. Lab: identification and classification of spring flora. 3 lec, 6 lab, field trips.

**310 Biology of Fungi (5)**

Prereq: 111 or 211. (fall) Morphology and life history studies of selected fungi of major groups; collection, isolation, and growth of selected fungi; fungal activities. 4 lec, 2 lab.

**313 Special Topics in Plant Biology (1-6)**

Current and/or special topics in plant biology.

**313B Supervised Study (1-3)**

Prereq: plant biology majors.

**322 Tropical Plant Ecology (4)**

Prereq: PBIO 209 or 425 or BIOS 375. (fall) *G. Matlack*. Tropical rainforest studies around the world, including basic plant ecology, conservation, and management. 4 lec.

**331 Plant Genetics (5)**

Prereq: 110 or 114 or BIOS 170. (spring) *A. Trese*. Basic principles of genetics as they relate to plants, including transmission, expression, and evolution of genetic materials. 5 lec.

**353 Plant Developmental Physiology (4)**

Prereq: 110 or 114 or BIOS 170. (spring) *S. Wyatt*. Growth and development in flowering plants. Topics include cell growth and differentiation in developing meristems, tissue and organ development in culture, dormancy and germination, flower induction, seed formation, growth regulators, and senescence. 4 lec.

**397T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (fall)

**398T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (winter)

**399T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (spring)

**404 Undergraduate Research (2-6, max 12)**

Prereq: 17 hrs plant biology and jr standing. Independent research under supervision of faculty member.

**410 Plants and Soil (4)**

Prereq: 111 or 211; 2 qtrs chemistry. Soil as environment for plant growth; interrelationships between plant and soil; role of soil organisms in cyclic processes; building and maintenance of soil fertility; relationships between soil and health of plants, animals, and humans. 3 lec, 2 lab.

**412 Plant Pathology (5)**

Prereq: 111 or 211 (fall, odd years) *A. Trese*. Diseases of plants; history, types of pathogens and disease cycles, impact in nature and agriculture, disease control strategies. Isolation and identification of pathogens. 3 lec, 4 lab.

**415 Quantitative Methods in Plant Biology (5)**

Prereq: PSY 221; 24 hrs of PBIO courses. (winter) *B. McCarthy*. Lecture: biostatistics and applications in the plant sciences; scientific method, hypothesis testing, and design of experiments; sampling, data analysis, regression and correlation, analysis of variance, and parametric and nonparametric statistics. Lab: microcomputer applications in spreadsheet analysis, statistics, and graphics. 4 lec, 2 lab.

**418 Writing in the Plant Sciences (4)**

Prereq: Jr, 15 hrs PBIO or BIOS (spring) *S. Wyatt*. Current research and public controversy dealing with topics in biology and plant science will provide students with opportunities to practice

and master skills needed for successful written communication in the fields of plant science and biology. No credit toward major. 4 lec.

**420 Phycology (5)**

Prereq: 111 or 211. (spring, odd years) *M. Vis-Chiasson*. Taxonomy and ecology of marine and freshwater algae, with emphasis on identification and distribution of common or representative genera. 3 lec, 4 lab.

**424 Plant Physiology (6)**

Prereq: 111 or 102; organic chemistry recommended. (spring) Basic chemical and physical aspects of plant processes; photosynthesis, respiration, mineral nutrition, transport, nitrogen metabolism, water relations, and growth. 3 lec, 4 lab.

**426 Physiological Plant Ecology (5)**

Prereq: 209 or 425. (spring, odd years) *K. Brown*. A survey of the complexity of plant physiological and structural adaptations that relate to their ecological performance. Comparisons of plant characteristics from many biomes. Emphasis on reading and discussing peer-reviewed literature. Labs feature hands-on learning of microclimate techniques, physiological protocols, synthesis and interpretation of data. 3 lec, 4 lab, 1 Saturday field trip.

**427 Molecular Genetics (3)**

Prereq: 331 or 431 or BIOS 325; organic chemistry. (spring) *A. Showalter*. Genetic fine structure and function at the molecular level; biochemical aspects of heredity in micro-organisms, plants, and animals; recombinant DNA and genetic engineering. 3 lec.

**431 Cell Biology (5)**

Prereq: 110 or 114 or BIOS 170. (fall, even years) Structure and function of cells, organelles, and cellular inclusions. 3 lec, 4 lab.

**435 Plant Population Biology (5)**

prereq: PBIO 209 or 425 or BIOS 375 (winter) *G. Matlack*. Acquaint students with basic demographic processes as experienced by plant populations; 2) explore the demographic implications of a range of plant growth forms and life histories; 3) present the material in the context of a variety of models. The course will take an evolutionary/behavioral approach to plant populations. 3 lec, 4 lab.

**436 Plant Community Ecology (5)**

prereq: PBIO 209 or 425 or BIOS 375; PSY 221 (fall) *B. McCarthy*. Advanced concepts and theory of plant community ecology. Emphasis will be placed on the interplay between theory and empirical studies. Classic literature will be reviewed and case studies developed from the modern literature to explore current ideas of theory, approach, and experimentation. Laboratories will emphasize modern field methods of vegetation analysis and environmental assessment. 3 lec, 4 lab.

**437 Ecosystem Ecology (4)**

Prereq: CHEM 122 or 152; PBIO 209 or BIOS 375 (spring, even years) *K. Brown*. Analysis of the composition, function, and heterogeneity of ecosystems. Topics include: atmospheric, climate and geological controls on ecosystem function, comparisons of aquatic and terrestrial ecosystems, ecosystem production, nutrient cycling and trophic dynamics. Synthesis with evaluation of human impacts on ecosystems, locally and globally. 4 lec.

**442 Experimental Anatomy of Plant Development (5)**

prereq: PBIO 210 or 424 (winter) *S. Wyatt* and *G. Rothwell*. The concepts of plant development have been integrated with the descriptive assessment of cell, tissue, and organ types that are the mainstay of plant anatomy to provide an exciting opportunity for all plant biologists. The course is grounded in experimentation and includes cutting edge methodologies. 3 lec, 4 lab

**450 Biotechnology and Genetic Engineering (4)**

Prereq: 110 or 114 or BIOS 170. (fall) *A. Showalter*. For upper level undergraduate students. Introduction to basic molecular

biological concepts and techniques in biotechnology and genetic engineering, including discussion of current experimentation and progress in these fields. 4 lec.

#### **460 Paleobotany (6)**

111 or 211 G. Rothwell. Morphology and evolution of representative fossil plant groups. 3 lec, 6 lab.

#### **475 Plant Speciation and Evolution (3)**

Prereq: jr or sr majors in PBIO, BIOS. (winter, even years) H. Ballard. Principles of evolution of plants and current topics in evolutionary biology. 3 lec.

#### **480 Molecular Approaches in Plant Systematics, Ecology and Evolution (5)**

prereq: 111 or 211 or BIOS 170 (winter, odd years) H. Ballard. Overview of comparative molecular approaches used to infer relationships in plants at level of populations, species and lineages. 3 lec, 4 lab.

#### **490 Internship (max 10)**

Prereq: permission. Provides students with credit for work experience in various applied fields of botany and environmental biology. Overseen by a faculty member and evaluated by the on-the-job supervisor. Report culminates experience.

#### **497T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (fall)

#### **498T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (winter)

#### **499T Plant Biology Tutorial (1-15)**

Prereq: Tutorial college. (spring)

## **Environmental Engineering Technology (EVT)**

The following courses for the A.A.S. in environmental engineering technology are available only on the Chillicothe campus:

#### **100 Introduction to Environmental Engineering Technology (3)**

Topics include toxicology, air pollution, groundwater contamination, transportation of hazardous materials, waste characterization, waste management, and waste treatment and disposal, with discussion of how regulations affect each.

#### **110 Computational Methods in Environmental Engineering Technology (3)**

Emphasizes the principles of data treatment, including experimental error recognition, statistical analysis, and graphical data techniques using up-to-date computer software. Computers and programmable calculators will be required for writing lab reports. 3 lec, 2 lab

#### **115 Legal Aspects of Environmental Engineering (2)**

Introduction to legal aspects of the rights and duties of the individual, business, and society with regard to the environment, and the consequences of future environmental legislation. Investigates environmental legislation and regulations and examines case studies highlighting the existing laws.

#### **120 Introduction to Environmental Chemistry (3)**

Prereq: CHEM 121 or 151. Environmental chemistry as applied to aquatic, atmospheric, soil, and hazardous waste systems. Topics include environmental chemical cycles, aquatic, atmospheric, and soil chemistry, environmental chemistry of hazardous wastes, and toxicology. 2 lec, 2 lab

#### **125 HAZWOPER Training (3)**

Provides experience required to work on a majority of environmental clean up sites. Covers regulatory obligations, handling hazardous materials, personal protective equipment, recognizing site contamination, emergency response, site control, medical assessment,

confined space entry, and respiratory protection. 3 lec, 2 lab.

#### **125L HAZWOPER Training Laboratory (1)**

Emphasizes handling hazardous materials with use of personal protective equipment, instrumentation, and equipment. Outdoor simulations and demonstrations included. 3 lab.

#### **140 Introduction to Air Pollution (3)**

Prereq: 110; CHEM 121 or 151. Principal types; sources; dispersion; effects; and physical, economic, and legal aspects of controlling atmospheric pollutants. Emphasizes atmospheric chemical reactions due to air pollutant emissions.

#### **150 Instrumentation in Environmental Analysis (3)**

Prereq: 110; CHEM 121 or 151. Provides foundation for understanding principles behind instrumentation used for environmental analysis. Gas chromatographs, mass spectrometers, infrared spectrophotometers, FIDs, and PIDs are studied. 3 lec, 3 lab.

#### **190 Internship/Practicum/Cooperative Education (1, max 20)**

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

#### **198A-Z Special Topics (1-5, max 20)**

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

#### **200 Site Investigation, Sampling, and Monitoring (3)**

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response.

#### **200L Site Investigation, Sampling, and Monitoring Laboratory (1)**

Prereq: 110. Field-oriented course involving hazardous materials site investigation, characterization, and cleanup. Topics are planning and organization, training and medical programs, site assessment, sampling and monitoring, site control, hazardous materials handling, and emergency response. 3 lab.

#### **210 Introduction to Health Physics (3)**

Addresses fundamental principles of health physics and radiation protection. Topics include atomic structure, types of radiation, radioactive decay, methods of radiation detection, dosimetry, biological effects, and radiation protection.

#### **210L Health Physics Laboratory (1)**

Emphasizes use of health physics instrumentation including rate meters, scintillation cells, radon detection, and gamma spectrometry as they apply to personal and environmental monitoring. 3 lab

#### **220 Fluid Mechanics (3)**

Prereq: 110. Fundamentals of fluid mechanics as applied to surface and groundwater, wastewater, and air emissions management. Topics include basic hydraulics, friction loss, pressure, flow measurement, pump types and characteristics, and schematic interpretation.

#### **240 Air Sampling and Analysis (3)**

Prereq: 110, 140. Provides practical field experience in ambient air and indoor sampling. Instrumentation is used to provide real time data collection and analysis. Emphasis on methods that determine the concentration of normally encountered air pollutants.

#### **240L Air Sampling and Analysis Laboratory (1)**

Prereq: 110, 140. Emphasizes air flow measurements using devices that demonstrate volumetric displacement, velocity impaction, viscosity, and pressure. Provides techniques for determining accuracy, precision of repeatability, and calibration. 4 lab

#### **245 Wastewater Treatment (3)**

Prereq: 110, 120. Introduction to wastewater treatment technologies. Covers regulations and phases of treatment for wastewater treatment systems, liquid/solid waste streams, and basic system process control.

#### **250 Analysis of Environmental Pollutants (3)**

Prereq: CHEM 121 and 122, or 151 and 152. Covers important techniques necessary for analyzing environmental samples. Methods established by EPA are used to analyze samples for heavy metals, volatiles, and semi-volatiles.

#### **250L Analysis of Environmental Pollutants Laboratory (1)**

Prereq: CHEM 121 and 122, or 151 and 152. Emphasizes lab instrumentation such as GC/MS, AA, and IR spectrophotometer. Lab reports required from the analysis of soil and water samples. 3 lab.

#### **260 Environmental Risk Assessment (3)**

Analyzes risk assessment process applied to environmental problems. Uncertainty factors, risk analysis, and exposure characterization, fate, and transport models will be addressed.

#### **290 Internship/Practicum/Cooperative Education (1, max 20)**

Required for students on approved work assignments. Must submit final report on work activities. Credit is not applicable toward specific degree requirements but will accumulate in academic credit total.

#### **298A-Z Special Topics (1-5, max 20)**

Provides an opportunity to complete individual projects that involve special topics concerning environmental engineering technology problems.

## **Equine Studies (EQU)**

The following courses for the A.A.S. in equine studies are available only on the Southern campus:

#### **101 Introduction to Equine Studies (4)**

Overview of the history of the horse, evaluation, selection, breeds, equipment, nutritional requirements, safe handling of horses, shoeing, equine reproduction, and career and leadership opportunities in the horse industry.

#### **110 Equine Nutrition (4)**

Study of the equine digestive system, nutrient requirements of horses at various levels of performance, and problems associated with feeds and feeding practices.

#### **120 Equine Anatomy and Physiology (4)**

Prereq: BIOL 101. Study of the structure and functions of the horse through the various anatomical systems.

#### **125 Equine First Aid and Preventive Medicine (5)**

First aid and emergency treatments, preventive medicine, diseases, and parasitism in horses.

#### **130 Equine Evaluation and Selection (3)**

Prereq: 101. Study of the types, evaluation, and selection of purebred horses.

#### **200 Equine Reproduction (4)**

Prereq: 101. Comprehensive study of equine reproduction stressing the anatomy and physiology of the stallion and mare and methods of breeding, including artificial insemination, and foaling.

#### **215 Equine Business Management (4)**

Prereq: CS 120. Study and practice of basic concepts, techniques, procedures of accounting involved in keeping and analyzing equine records from the management viewpoint. Designed to integrate general business concepts with common practices in the horse industry. Topics include general business laws, equine law, public relations, insurance, bookkeeping, contracts, taxes, and starting and maintaining a horse operation.

**220 Farm and Stable Management (4)**

Study of the management of a working horse farm. Topics include scheduling, budgeting, equipment use and maintenance, land management, facilities management, site selection and design, and safety.

**225 Equestrian Teaching Techniques (3)**

Study of the methods of teaching riding. Emphasis on the abilities and skills a good instructor must possess to teach riding as well as the safety, care, and evaluation of school horses. Students will develop and implement teaching plans for riders at the beginning level.

**230 Comprehensive and Competitive Horse Judging (3)**

Prereq: 130. Continuation of 130. Activity through which students can put assimilated knowledge to practical application and assess knowledge competing on the OU Horse Judging Team. Travel required. Written and oral defense also required.

**235 Horse Show and Event Management (3)**

Designed to provide students with the necessary tools to organize any show, event, or clinic related to the equine industry. Major topics include planning, fund raising, financing, insurance, record keeping, and advertising. Utilization of principles to plan and operate a horse show and/or clinic for OU–Southern or associated organization.

**240 Basic Horse Shoeing (3)**

Shoeing and balancing of pleasure and performance horses, corrective trimming, hoof health, anatomy of the leg and foot, and blacksmithing as a business.

**250 Harnessing and Driving (1)**

Knowledge and fundamental skills used in line driving, lunging, harnessing, and pleasure driving.

**280 Fundamentals of Starting the Young Horse (2)**

Prereq: PED 168, 172, 173, 176, 177, or 180. Development of advanced riding skills including handling, gentling, saddling, and riding a green-broke horse applying basic horsemanship skills.

**281 Fundamentals of Starting the Young Horse II (2)**

Prereq: 280. Continuing to develop advanced riding skills necessary to train a green broke horse by understanding and implementing specific standard training procedures. Student will have responsibility for an assigned young horse, teaching that horse to walk, trot, lope, back, and turn around under saddle. Horses will be trained according to their intended use.

**282 Therapeutic Riding (3)**

Study of the fundamental knowledge and skills related to the therapeutic riding concept. Topics include evaluating and training a horse for therapeutic riding activities, basic state and federal laws addressing people with disabilities, and behavioral concerns with identification of alternative approaches. A supervised experience in therapeutic riding techniques is part of the course.

**283 Therapeutic Facility Design and Management (3)**

This course makes students aware of the difficulties therapeutic riding clients face in day to day life. Through careful design and management, clients can ride safely and care for program horses.

**284 Techniques for Teaching the Therapeutic Rider (4)**

This course encourages students to understand and work with riders with disabilities and challenges. It is essential for instructors to research and know the issues these riders face and formulate lesson plans according to individual needs and goals.

**285 Preparation for Therapeutic Riding Instructor Certification (3)**

Designed to prepare students for the Registered Level Therapeutic Riding Exam offered by the North American Riding for the Handicapped

Association. The course covers all components of the test and provides lecture and active experience with immediate evaluation and feedback.

**286 Administrative Aspects of Therapeutic Riding (3)**

Provides information on administrative issues and aspects of therapeutic riding, the riding center, and overall management. The course includes goal setting, strategic planning, legal issues, and working with boards.

**287 Evaluation and Training of the Therapy Horse (2)**

This course rounds out the therapeutic riding student's education to include evaluation and training of horses brought into a therapy program. This knowledge and awareness increases the safety and therapeutic value of the sessions for the therapeutic riding client.

**290 Equine Field Experience (1-6)**

Field experience which might include trips to horse farms, race tracks, veterinary clinics, museums, horse shows or events, or seminars offered through recognized organizations or individuals.

**295 Equine Internship (1-6)**

Practical experience in a specific area of equine studies pertinent to the individual's interests. Examples include working with breeders, trainers, farm and stable managers, riding instructors, breed associations or organizations, veterinarians, and related equine agencies.

**299 Studies in Equine Issues (1-4)**

Study of topics of current interest in the horse industry.

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**Film (FILM)**
**201 Introduction to Film I (4) (2H)**

Prereq: soph. (fall) Studies in the history of world cinema, from 1895 to the present. Weekly screenings of silent and sound, American and international films.

**202 Introduction to Film II (4) (2H)**

Prereq: soph. (winter) Introduction to film analysis, with emphasis on formal aspects of film art such as sound, lighting, mise-en-scene, etc. Weekly screenings.

**203 Introduction to Film III (4) (2H)**

Prereq: soph. (spring) Special topics in film styles, genres, movements, and forms. Weekly screenings.

**338 Studies in the Documentary Film (3)**

Prereq: 203. (winter) Special topics in the history, theory, and criticism of documentary film and video. Weekly screenings.

**340 Film Techniques (4)**

Prereq: 201. Introduction to motion picture production techniques. Students will design, shoot, and edit their own projects.

**343 Scriptwriting (4)**

Prereq: 201 or 202. Introduction to craft of developing narrative screenplay. Workshop/tutorial approach to study of screenplay structure, format, dialogue, and theory culminating in a 20- to 30-minute completed script.

**344J The Practice of Film Criticism (4) (1J)**

Prereq: 201 or 202. Survey of film criticism examining styles and techniques of established film critics. Students assigned series of exercises in critical writing. Meets junior-level English requirement.

**421 International Film I (4)**

Prereq: 201. Analysis of the relationship between film and culture, with emphasis on how cultural meanings influence film aesthetics and the critical assessment of the medium. Films of several film-making nations such as Brazil, China, India, Sweden, and the United States will be screened for study.

**422 International Film II (4)**

Prereq: 201. The development of a nation's or cultural region's films is traced, with emphasis

on contemporary works. Cultures under study will vary quarterly and may include the films of Brazil, China, Germany, Eastern Europe, Italy, Southeast Asia, etc.

**423 International Film III (4)**

Prereq: 201. The aesthetics and uses of film and related technologies in the study of both Western and non-Western peoples is studied, with emphasis on the ethnographic and documentary film. Assignments include field exercises with image-making equipment.

**431 Film History I (4)**

Prereq: 201 or 202. (fall) Advanced study of the history and historiography of the motion picture. Emphasis on alternatives to the film canon and revisionist approaches to film history. Weekly screenings.

**432 Film History II (4)**

Prereq: 201 or 202. (winter) Studies in the history of international silent and sound documentary film. Weekly screenings.

**433 Film History III (4)**

Prereq: 201 or 202. Studies in the history of international silent and sound experimental film. Weekly screenings.

**444 Media Certs Management (4)**

Practical assignments in association with the Athens International Film and Video Festival

**451 Film Theory and Criticism I (4)**

Prereq: 203. (fall) Introductory survey of classical and contemporary approaches to film theory and criticism. Weekly screenings.

**452 Film Theory and Criticism II (4)**

Prereq: 451. (winter) Advanced study of classical and contemporary approaches to film theory and criticism. Weekly screenings.

**453 Film Theory and Criticism III (4)**

Prereq: 452. (spring) Special topics in film theory and criticism, including auteurism, structuralism, formalism, and feminism. Weekly screenings.

**461 Motion Picture Production I (5)**

Prereq: Honors Tutorial College Film major. (fall) Professional 16mm film production. Instruction in basic camera and lighting technique, elementary film structure, and bench editing leading to production of individual silent film projects.

**462 Motion Picture Production II (5)**

Prereq: Honors Tutorial College Film major. (winter) Continuation of 361 introducing sound motion picture shooting and editing techniques, A and 8 roll preparation.

**463 Motion Picture Production III (5)**

Prereq: Honors Tutorial College Film major. (spring) Continuation of 362. Advanced sound motion picture production techniques.

**471 Film Topics Seminar (1-5)**

Prereq: perm. (fall) Investigation of selected motion picture topic announced in advance of registration. Focus may be scholarly/critical, industry related, or aspect of motion picture production or screenwriting. Topics and credit hours vary.

**472 Film Topics Seminar (1-5)**

Prereq: perm. (winter) See 471 for description.

**473 Film Topics Seminar (1-5)**

Prereq: perm. (spring) See 471 for description.

**490 Individual Production Problems (1-5)**

Prereq: perm. Individual production of motion picture. May be repeated.

**491 Individual Readings (1-5)**

Prereq: perm. Readings and reports on works related to motion pictures. Reading list is selected by student in consultation with faculty member. May be repeated.

**492 Independent Study (1-5, max 10)**

Prereq: perm. Advanced individual creative or scholarly work in film.

**497T Film Tutorial (1-15)**

Prereq: Honors Tutorial College Film Major

**498T Film Tutorial (1-15)**

Prereq: Honors Tutorial College Film Major

**499T Film Tutorial (1-15)**

Prereq: Honors Tutorial College Film Major

**Finance (FIN)****102 Personal Money Management (4)**

Prereq: fr/soph only. How to live better financially. Relation of personal goals to money management in terms of expenditures, savings, and tax considerations. Financial media that serve the individual such as life insurance, savings, securities, and consumer and mortgage credit.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**301 Introduction to Finance (4)**

Prereq: ACCT 102 and QBA 201 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251; no credit for COB students. Problems in managing personal finances. Budgeting expenditures and savings. Planning life insurance program, investment in savings accounts, securities, and other financial assets. Use of consumer and mortgage credit. Personal taxes.

**325 Foundations of Finance (4)**

Prereq: COB and ACCT 102; QBA 201 or PSY 120, 121, or 221 or ECON 381 or COMS 301 or GEOG 271; jr. Role of financial management in business enterprise; financial analysis; planning needs for short-term and long-term funds; planning for profits; capital budgeting; internal management of working capital and income; raising funds to finance growth of business enterprises.

**327 Financial Markets and Institutions (4)**

Prereq: FIN 325, jr and perm. Flow of funds and interest-price movements in money and capital markets. Supply of loanable funds and demand for funds in mortgage loan market, consumer credit market, corporate securities markets, and markets for government securities and municipal obligations. Consideration of effects on financial markets of Federal Reserve and Treasury policies.

**331 Risk and Insurance (4)**

Prereq: jr or sr and perm. Social importance of risk and its place in personal, business, and national life, including principles and methods of handling risk. Special interest in technique of insurance.

**341 Investments (4)**

Prereq: 325 Principles in determination of investment media for individual and institutional portfolios. Sources of investment information, analysis of financial statements, investment risks and yields. Securities markets and their behavior.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities to learn by participation in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**410 Personal Financial Planning (4)**

Prereq: 325 Introduction to financial planning for individuals. This course will survey the topics of money management, insurance planning, investment planning, retirement planning, and estate planning.

**420 Financial Banking Law (4)**

Prereq: jr. This course is designed for students seeking to understand the law and policy of banking and financial institutions (bank, thrift, and credit union). The course emphasizes economic, historical, and legal background of financial institutions, the financial institution regulatory process, and consumer laws.

**428 Management of Financial Institutions (4)**

Prereq: 327 or perm. Analysis of objectives, functions, practices, and problems of financial institutions as viewed by management of these institutions.

**436 Life Insurance (4)**

Prereq: 331, perm. Fundamental economics of life insurance. Principles and practices of life insurance including types of contracts, group and industrial insurance, and annuities.

**437 Personal and Business Financial Planning (4)**

Prereq: jr, 331. Basics of IRS as it applies to personal and corporate taxes, as well as completion of form 1040. Information required on advising clients, as well as personal, concerning estate planning, taxes, trusts, gifts, etc., and how to gather information.

**440 Group Insurance and Employee Benefits (4)**

Prereq: FIN 331. The study of group life insurance, health insurance and pensions; application to "real life" employee benefits; and exposure to guest speakers from the insurance and securities industry.

**441 Business Insurance and Estate Cases (4)**

Prereq: two from among 436, 437, 439, and 440. A summary course for students in the risk and insurance field. New cases assigned each week requiring presentations in class and written recommendations on selected case studies presented by small student groups. Lectures by practicing professionals from related disciplines (law, accounting, trusts, employee benefits) are scheduled to demonstrate the broad nature of estate planning practice.

**442 Security Analysis (4)**

Prereq: FIN 341. Equity security analysis using various quantitative and qualitative methods.

**444 Risk Management (4)**

Prereq: 327 or perm. Description of derivatives markets, trading, and institutions. Text is supplemented by current readings and derivatives trading simulations.

**445 Portfolio Management (4)**

Prereq: 341, perm. Decision-making processes in management of individual and institutional securities portfolios. Theoretical foundations of portfolio selection and construction. Model-building and other criteria applicable to selection, risk-return tradeoffs, revision and evaluation of portfolio performance. Applications of computer technology and other quantitative techniques to different aspects of portfolio management.

**450 Credit and Lending Principles of Financial Institutions (4)**

Prereq: 325. Provides examination of basic functions involved in supplying credit to borrowers by financial institutions. Organizational framework and division aspects of process studied. Significant policy issues and implications covered.

**452 Small Business Finance (4)**

Prereq: 325 Application of basic financial management techniques to small business environment (100 or fewer employees). Problems faced by persons who start small business and recommendations for alternative solutions to most commonly discovered problems. Micro view, nuts-and-bolts approach used throughout course, but consistent with broad macro overview set of company objectives.

**455 International Finance (4)**

Prereq: 325 Problems in international finance. Financing international trade and other transactions; foreign exchange market, exchange market, and exchange rates, international payments system. Foreign central banking and current developments in international financing cooperation.

**461 Financial Management and Policy (4)**

Prereq: 327 and 341, perm. Case study of financial management in business enterprises. Planning current and long-run financial needs, profit planning, allocation of funds, raising funds, dividend policies, expansion and combination, recapitalization and reorganization.

**463 Capital Allocation (4)**

Prereq: 325, perm. Planning capital outlays. Methods for ranking investment proposals. Theories of financial structure and cost of capital. Approaches to investment decisions under conditions of uncertainty.

**465 Mathematical Analysis of Financial Decisions (4)**

Prereq: 325, perm. Application of quantitative methods to financial management, with special emphasis on systems approach to evaluating proposed financial decisions.

**491 Seminar (3, 4, or 5)**

Prereq: perm. Selected topics of current interest in finance area.

**497 Independent Research (1-4)**

Prereq: perm. Research in selected fields of finance under direction of faculty member.

**498 Internship (1-4)**

Prereq: perm.

**Foreign Languages and Literatures**

(see also: Modern Languages)

**Chinese (Asian) (CHIN)****111 Elementary Chinese (4)**

(fall) Beginning course of 3-qr 1st-yr sequence.

**112 Elementary Chinese (4)**

Prereq: 111 or equiv. (winter) Continuation of 111.

**113 Elementary Chinese (4)**

Prereq: 112 or equiv. (spring) Continuation of 112.

**169A Spoken Business Chinese (4)**

A task-oriented introduction to the basic communicative functions and business terminologies of the Chinese language. Chinese culture and alphabetic Chinese writing will also be introduced; the Chinese character writing system will not be used. Does not satisfy the foreign language requirement.

**211 Intermediate Chinese (4) (2C)**

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

**212 Intermediate Chinese (4) (2C)**

Prereq: 211 or equiv. (winter) Continuation of 211.

**213 Intermediate Chinese (4) (2C)**

Prereq: 212 or equiv. (spring) Continuation of 212.

**311 Advanced Chinese (4)**

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

**312 Advanced Chinese (4)**

Prereq: 311 or equiv. (winter) Continuation of 311.

**313 Advanced Chinese (4)**

Prereq: 312 or equiv. (spring) Continuation of 312.

**399 Special Studies in Chinese (1-3)**

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Chinese language and culture.

**French (Romance) (FR)****111 Elementary French (4)**

Beginning course of 3-qr, 1st-yr sequence. Basic grammatical concepts and patterns.

Emphasis on development of reading, listening comprehension, speaking, and writing skills. Basic text and workbook used. Lab required. No credit if 199.

**112 Elementary French (4)**

Prereq: 111. Continuation of 111. Basic text, workbook, and readings used. Lab required. No credit if 199.

**113 Elementary French (4)**

Prereq: 112. Continuation of 112. Basic text, workbook, and readings used. Lab required. No credit if 199.

**199 French for Review (4)**

No CR if 111, 112 or 113. (fall) Preparation for FR 211 for students with some high school French. Review of grammar and vocabulary with intensive practice adapted to college-level expectations and instructional techniques. Emphasis on speaking, listening, reading, and writing. Does not satisfy language or humanities requirements in Arts and Sciences.

**211 Intermediate French (4) (2C)**

Prereq: 113 or 2 or 3 yrs h.s. French. 1st course of 3-qr intermediate-level sequence. Intensive review of grammar. Additional readings with discussion in French. Supplemental cultural material.

**212 Intermediate French (4) (2C)**

Prereq: 211 or perm. Continuation of 211.

**213 Intermediate French (4) (2C)**

Prereq: 212 or 4-5 yrs h.s. French. Reading and discussion of selected modern works. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

**298 Independent Study in French (1-2, max 6)**

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving French language. Does not count toward major or minor. Does not satisfy language requirement.

**341 Advanced Conversation and Composition (4)**

Prereq: 213 or perm. Speaking and writing based on readings and assigned topics. Grammar review.

**342 Advanced Conversation and Composition (4)**

Prereq: 341 or perm. Continuation of 341.

**343 Advanced Conversation and Composition (4)**

Prereq: 342 or perm. Continuation of 342.

**345 French for Business (4)**

Prereq: 343. Profession-oriented language and culture training in French. Reading, writing, listening, and speaking skills are emphasized in a business context.

**348 French Civilization and Culture (4)**

Prereq: 341 or 342 or 343. Social, political, and cultural history of France from Middle Ages to Revolution. Readings, discussions, class reports, and short papers.

**349 French Civilization and Culture (4)**

Prereq: 341 or 342 or 343. (spring) Continuation of 348, covering 1799 to present. France in the modern world.

**354 Introduction to Reading French Literature (4)**

Prereq: 341 or 342 or 343. Designed to prepare students to meet the challenges of advanced literature courses. Close reading techniques will enable students to read modern French works with speed and comprehension. Basic aspects of literary analysis and theory will be emphasized.

**355 Introduction to Prose (4)**

Prereq: 354. Reading and discussion of French novels, short stories, and other narrative genres representing various literary traditions.

**356 Introduction to Drama and Poetry (4)**

Prereq: 354. Reading and discussion of French drama, as literary text and theatrical performance, and lyric poetry from several historical periods.

**396 Internship in French (1-5)**

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

**415 French Literature of the Renaissance (4)**

Prereq: 354; 355 or 356. Major 16th-century poets, including Du Bellay and Ronsard.

**416 French Literature of the Renaissance (4)**

Prereq: 354; 355 or 356. Major 16th-century prose writers, including Rabelais and Montaigne.

**418 17th-Century French Literature (4)**

Prereq: 354; 355 or 356. Works by numerous authors, including at least some of the following: Descartes, Pascal, La Fayette, La Rochefoucauld, La Bruyère, La Fontaine, and Boileau.

**419 17th-Century French Literature (4)**

Prereq: 354; 355 or 356. Major plays of Corneille, Racine, and Molière.

**423 18th Century (4)**

Prereq: 354; 355 or 356. French literature and thought in Age of Enlightenment.

**424 18th Century (4)**

Prereq: 354; 355 or 356. Continuation of 423.

**425 Romanticism (4)**

Prereq: 354; 355 or 356. Romanticism in drama, poetry, and fiction of first half of 19th century.

**426 Realism and Naturalism (4)**

Prereq: 354; 355 or 356. Major fictional works of 19th century.

**427 French Poetry in the Second Half of the 19th Century (4)**

Prereq: 354; 355 or 356. Poetry of Baudelaire, Verlaine, Rimbaud, Mallarmé, and others.

**429 20th-Century French Literature I (4)**

Prereq: 354; 355 or 356. French prose fiction before WWII.

**431 20th-Century French Literature II (4)**

Prereq: 354; 355 or 356. French prose fiction since WWII.

**433 20th-Century French Literature III (4)**

Prereq: 354; 355 or 356. French drama of the 20th century.

**434 French Through Film (4)**

Prereq: 342. Early development of the French cinema and its more recent filmmakers, actors, and actresses. Films are studied in their cultural and historical contexts. Students increase their French proficiency through listening, speaking, reading, and writing.

**435 Proseminar (1-4, max 12)**

Prereq: 354; 355 or 356. Subject will vary. May be repeated when subject changes.

**437 Applied Phonetics (4)**

Prereq: 343 or perm. (fall) Systematic study of segmental and prosodic elements of French pronunciation including extensive oral practice.

**439 Modern French Usage (4)**

Prereq: 343 or perm. (winter) Fine points of grammar. Practice in composition and analysis of texts.

**440 Teaching French: Theory and Practice (4)**

Prereq: 343. Provides an introduction to current theories about learning and teaching modern foreign languages, with a focus on the particularities of teaching French language and cultures; opportunities to apply that theoretical knowledge to classroom teaching; and opportunities to develop a deeper knowledge of and more proficiency in French language and cultures. Does not count for major.

**441 Stylistics and Criticism (4)**

Prereq: 343 or perm. (spring) Composition. Explication de texte. Translation of English into French. Study of French prosody.

**454 Francophone Literature of Sub-Saharan Africa, Maghreb, and the Caribbean (4)**

Prereq: 355 or 356. Representative works by 20th century Francophone Sub-Saharan, Maghreb, and Caribbean writers, including at least, but not limited to, Malika Mokeddem, Leopold Senghor, Ferdinand Oyono, Maryse Conde, and Simone Schwartz-Bart. Works are studied in their historical and cultural contexts. Readings, lectures, films, and discussions.

**464 Francophone Literature of Quebec (4)**

Prereq: 355 or 356. Representative works by 20th century writers of Quebec including at least, but not limited to, Anne Hébert, Roch Carrier, Michel Tremblay, Marie-Claire Blais, and Yves Beauchemin. Works are studied in their historical and cultural contexts. Readings, lectures, films, and discussions.

**498 Independent Study in French (1-2, max 4)**

Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

**German (Germanic) (GER)****111 Elementary German (4)**

Introduction to pronunciation and basic grammar. Development of comprehension and speaking skills. Lab required. Beginning course of 3-qr 1st-yr sequence.

**112 Elementary German (4)**

Prereq: 111. Continuation of 111. Lab required.

**113 Elementary German (4)**

Prereq: 112. Continuation of 112. Continued development of skills of oral and written production and comprehension. Lab required.

**211 Intermediate German (4) (2C)**

Prereq: 113 or 2 or 3 yrs h.s. German. Continued development of listening comprehension, reading, writing, and speaking skills. Grammar review. Lab required. 1st course of 3-qr intermediate-level sequence.

**212 Intermediate German (4) (2C)**

Prereq: 211 or perm. Continuation of 211. Emphasis on discussion of modern texts. Continued development of listening comprehension and speaking and writing skills. Lab required.

**213 Intermediate German (4) (2C)**

Prereq: 212 or 4-5 yrs h.s. German. Modern German texts are read and form basis for discussions and written assignments. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

**235 German Drama on Stage (1-4)**

(winter) Presentation of German drama on stage. Private coaching in pronunciation and inflection of German. Credit varies according to role of student. May be repeated for credit with perm.

**298 Independent Study in German (1-2, max 6)**

Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving German language. Does not count toward major or minor. Does not satisfy language requirement.

**341 Advanced Conversation and Composition (4)**

Prereq: 213 or perm.

**342 Advanced Conversation and Composition (4)**

Prereq: 341 or perm.

**343 Advanced Conversation and Composition (4)**

Prereq: 342 or perm.

**345 Business German (4)**

Prereq: 342. Development of the student's linguistic abilities in German in a business context. Readings, videos, and discussions will focus on business terminology and practices



in German-speaking countries. Written assignments include preparing a resume and a letter of application in German.

**348 German Culture and Civilization (4)**  
Prereq: 213 or perm. Historical, intellectual, and artistic aspects of German, Austrian, and Swiss culture from earliest times to present.

**349 German Culture and Civilization (4)**  
Prereq: 213 or perm. Continuation of 348.

**355 Introduction to German Literature (4)**  
Prereq: 213. Study of major literary works, with emphasis on 18th and 19th centuries.

**356 Introduction to German Literature (4)**  
Prereq: 213. Study of major literary works of 20th century.

**396 Internship in German (1-5)**  
Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

**425 19th-Century German Literature (4)**  
Prereq: 355 and 356.

**426 19th-Century German Literature (4)**  
Prereq: 355 and 356.

**427 19th-Century German Literature (4)**  
Prereq: 355 and 356.

**429 20th-Century German Literature (4)**  
Prereq: 355 and 356.

**430 20th-Century German Literature (4)**  
Prereq: 355 and 356.

**431 20th-Century German Literature (4)**  
Prereq: 355 and 356.

**433 German Lyric Poetry (4)**  
Prereq: 355 and 356. Interpretative and critical study of German lyric poetry.

**435 Proseminar (1-4, max 12)**  
Prereq: perm. Intensive analysis of major author, literary genre, or theme. When subject is changed, student may re-enroll.

**439 Grammatical Structure (4)**  
Prereq: 343 or perm. Selected problems in analysis and classroom presentation of German morphology and syntax.

**441 Stylistics (4)**  
Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

**453 The Age of Goethe (4)**  
Prereq: 355 and 356. Major works of Lessing, Schiller, and Goethe

**454 The Age of Goethe (4)**  
Prereq: 355 and 356. Continuation of 453. See 453 for description.

**455 The Age of Goethe (4)**  
Prereq: 355 and 356. Continuation of 453 and 454. See 453 for description.

**498 Independent Study in German (1-2, max 4)**  
Prereq: 8 credits at 300 level or perm of dept chair. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hrs required for major. Maximum of two credits may count toward minor.

## Greek (GK)

**111 Beginning Greek (4)**  
Grammar, vocabulary, and reading of ancient Greek. Students will be introduced to Ionic, Attic, and Koine (New Testament) dialects.

**112 Beginning Greek (4)**  
Prereq: 111. Continuation of 111. See 111 for description.

**113 Beginning Greek (4)**  
Prereq: 112. Continuation of 111. See 111 for description.

**211 Greek Prose and Poetry (4) (2H)**  
Prereq: 113. Review of language principles. Readings adapted to needs and interests.

**212 Greek Prose and Poetry (4) (2H)**  
Prereq: 211. Continuation of 211. See 211 for description.

**213 Greek Prose and Poetry (4) (2H)**  
Prereq: 212. Continuation of 211-212. See 211 for description.

**251X Demotic Greek (4)**  
Beginning demotic (modern) Greek.

**252X Demotic Greek (4)**  
Prereq: 251X. Continuation of demotic (modern) Greek.

**253X Demotic Greek (4)**  
Prereq: 252X. Continuation of demotic (modern) Greek.

**311 Greek Epic Poets (4)**  
Readings in Greek from Homer and Hesiod.

**312 Greek Tragedy (4)**  
Readings in Greek from Aeschylus, Sophocles, and/or Euripides.

**313 Readings in Greek Intellectual History (4)**  
Readings in Greek from Plato, Thucydides, and/or the Sophists.

**314 Greek Historians (4)**  
Readings in Greek from Herodotus and Thucydides.

**315 Greek Comedy (4)**  
Readings in Greek from Aristophanes.

**316 The Greek New Testament and the Milieu of Early Christianity (4)**  
Readings in Greek from the New Testament, the early Greek fathers, and/or non-Christian writers of interest for the study of early Christianity.

**409 Advanced Greek Readings (2-4, max 18)**  
Prereq: 21 hrs. (on demand) Selections adapted to needs and interests.

## Indonesian/Malaysian (Asian) (INDO)

**111 Elementary Indonesian/Malaysian (4)**  
(fall) Beginning course of 3-qr 1st-yr sequence.

**112 Elementary Indonesian/Malaysian (4)**  
Prereq: 111 or equiv. (winter) Continuation of 111.

**113 Elementary Indonesian/Malaysian (4)**  
Prereq: 112 or equiv. (spring) Continuation of 112.

**211 Intermediate Indonesian/Malaysian (4)(2C)**  
Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

**212 Intermediate Indonesian/Malaysian (4) (2C)**  
Prereq: 211 or equiv. (winter) Continuation of 211.

**213 Intermediate Indonesian/Malaysian (4) (2C)**  
Prereq: 212 or equiv. (spring) Continuation of 212.

**311 Advanced Indonesian/Malaysian (4)**  
Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

**312 Advanced Indonesian/Malaysian (4)**  
Prereq: 311 or equiv. (winter) Continuation of 311.

**313 Advanced Indonesian/Malaysian (4)**  
Prereq: 312 or equiv. (spring) Continuation of 312.

**399 Special Studies (1-3, max 9)**  
Prereq: perm. Independent study of topic of interest in Indonesian/Malaysian language or literature.

## International Literatures in English (ILL/ILML)

The lectures and readings for these courses are in English and are aimed at the entire University community. While they do not fulfill requirements toward any of the majors in foreign language, these courses will count toward the humanities area requirements of the College of Arts and Sciences. No credit is counted toward the foreign language requirement.

### International Literature: Linguistics (ILL)

**340 Traditional Literature of Southeast Asia (3)**

(fall) Survey of traditional literature of Southeast Asia in English.

**345 Modern Literature of Southeast Asia (3)**

(winter) Survey of modern literature of Southeast Asia in English.

**369A Women in Chinese Literature (4)**  
Introduction to Chinese language, culture, and society through reading in English translation of fictional representations of women in China.

### International Literature: Modern Languages (ILML)

**334(A-Z) Portuguese and Brazilian Literature in English (4)**

Literature of Portugal or literature of Brazil in English translation. See schedule of classes for topics each quarter.

**335(A-Z) Italian Literature in English (4)(2H)**  
Famous literary works of best Italian authors, presented in English. See schedule of classes for topics each quarter.

**336(A-Z) Spanish Literature in English (4) (2H)**

Topics may deal with either Spanish or Latin American literature. See schedule of classes for topics each quarter.

**337(A-Z) French Literature in English (4)(2H)**  
Literary works by authors of French expression, read and discussed in English. See schedule of classes for topics each quarter.

**338A German Literature in English (4) (2H)**  
Survey of masterpieces of German literature, presented in English.

**338B German Novel in English (4) (2H)**  
Introduction to major German, Swiss, and Austrian novelists in English translation.

**339A Russian Literature in English (4)**  
Survey of Russian literature from beginnings to revolution, presented in English.

**339B 20th Century Russian Literature in English (4)**  
Major Russian writers of the 20th century.

### Italian (Romance) (ITAL)

**111 Elementary Italian (4)**  
(fall) Beginning course of 3-qr 1st-yr sequence.

**112 Elementary Italian (4)**  
Prereq: 111 or equiv. (winter) Continuation of 111.

**113 Elementary Italian (4)**  
Prereq: 112. (spring) Continuation of 112.

**211 Intermediate Italian (4) (2C)**  
Prereq: 113 or 2-3 yrs h.s. Italian. (fall) 1st course of 3 qtr intermediate-level sequence.

**212 Intermediate Italian (4) (2C)**  
Prereq: 211 or perm. (winter) Continuation of 211.

**213 Intermediate Italian (4) (2C)**

Prereq: 212 or 4-5 yrs h.s. Italian. (spring)  
Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

**341 Advanced Conversation and Composition (4)**

Prereq: 213 or perm. (fall)

**342 Advanced Conversation and Composition (4)**

Prereq: 341 or perm.

**396 Internship in Italian (1-5)**

Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

**Japanese (Asian) (JPN)****111 Elementary Japanese (4)**

(fall) Beginning course of 3-qtr 1st-yr sequence.

**112 Elementary Japanese (4)**

Prereq: 111 or equiv. (winter) Continuation of 111.

**113 Elementary Japanese (4)**

Prereq: 112 or equiv. (spring) Continuation of 112.

**211 Intermediate Japanese (4) (2C)**

Prereq: 113 or equiv. (fall) 1st course of 3-qtr intermediate-level sequence.

**212 Intermediate Japanese (4) (2C)**

Prereq: 211 or equiv. (winter) Continuation of 211.

**213 Intermediate Japanese (4) (2C)**

Prereq: 212 or equiv. (spring) Continuation of 212.

**251x Japanese Language and Culture I (4)**

Prereq: 113. Study of Japanese culture and society through classwork and experiential activities that utilize the student's developing skills in the Japanese language. Students will be in Japan as part of the Chubu Study Abroad program.

**252x Japanese Language and Culture II (4)**

Prereq: 113. Study of Japanese culture through readings on contemporary Japan and interviews with Japanese people. Students will be in Japan as part of the Chubu Study Abroad program.

**311 Advanced Japanese (4)**

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

**312 Advanced Japanese (4)**

Prereq: 311 or equiv. (winter) Continuation of 311.

**313 Advanced Japanese (4)**

Prereq: 312 or equiv. (spring) Continuation of 312.

**348 Readings in Japanese Culture I (4)**

Prereq: 213x or 311 or perm. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

**349 Readings in Japanese Culture II (4)**

Prereq: 348. Social, political, and cultural aspects of modern Japan, through readings, discussions, class reports, and short papers. All work will be done in Japanese.

**399 Special Studies in Japanese (1-3)**

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Japanese language and culture.

**411 Fourth-Year Japanese (4)**

Prereq: 313 or equiv. (fall) Beginning of fourth-year sequence.

**412 Fourth-Year Japanese (4)**

Prereq: 411 or equiv. Continuation of 411.

**413 Fourth-Year Japanese (4)**

Prereq: 412 or equiv. Continuation of 412.

**Japanese Culture (JPC)****250 Introduction to Japanese Culture (4) (2C)**

(spring) Introduction to cultural traditions of Japan and its language. English translations are used.

**310 Field Study in Japan (2)**

(spring) Cultural orientation designed to prepare students for study abroad in Japan. Taught in English.

**450 Japan: A Sociocultural Interpretation (4)**

(spring) Focused readings in English designed to broaden students' understanding of Japanese culture for personal, academic, or professional purposes.

**Latin (LAT)****111 Beginning Latin (4)**

Grammar, vocabulary, and reading.

**112 Beginning Latin (4)**

Prereq: 111. Continuation of 111. See 111 for description.

**113 Beginning Latin (4)**

Prereq: 112. Continuation of 111-112. See 111 for description.

**211 Intermediate Latin (4) (2H)**

Prereq: 113 or 2-3 yrs h.s. Latin. Review of language principles. Reading of prose and poetry.

**212 Intermediate Latin (4) (2H)**

Prereq: 211. Continuation of 211. See 211 for description.

**213 Intermediate Latin (4) (2H)**

Prereq: 212. Continuation of 211-212. See 211-212 for description.

**351 Latin Prose and Poetry (4)**

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Review of essential Latin. Reading of Cicero's essays, play of Plautus or Terence, Horace's Odes and Epodes.

**352 Latin Prose and Poetry (4)**

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351. See 351 for description.

**353 Latin Prose and Poetry (4)**

Prereq: 213 or 4 yrs h.s. Latin, or 2 yrs h.s. Latin and perm. Continuation of 351-352. See 351 for description.

**364 The Teaching of High School Latin (4)**

Prereq: 213. (on demand) Content and methods of teaching h.s. Latin courses.

**411 Latin Literature of the Republic (4)**

Prereq: 353. Selections from works of Plautus, Terence, Caesar, Cicero, Lucretius, Catullus, and Sallust.

**412 Latin Literature of the Republic (4)**

Prereq: 353. Continuation of 411. See 411 for description.

**413 Latin Literature of the Republic (4)**

Prereq: 353. Continuation of 411-412. See 411 for description.

**415 Latin Literature of the Early Empire (4)**

Prereq: 353. Selections from works of Vergil, Horace, Livy, Ovid, Martial, Tacitus, Juvenal, and Pliny the Younger.

**416 Latin Literature of the Early Empire (4)**

Prereq: 353. Continuation of 415. See 415 for description.

**417 Latin Literature of the Early Empire (4)**

Prereq: 353. Continuation of 415-416. See 415 for description.

**419 Readings in Latin Literature (4)**

Prereq: 353. Selections complement students' other readings in Latin literature.

**420 Readings in Latin Literature (4)**

Prereq: 353. Continuation of 419. See 419 for description.

**421 Readings in Latin Literature (4)**

Prereq: 353. Continuation of 419-420. See 419 for description.

**433 Advanced Latin Syntax (4)**

Prereq: 353. Writing of Latin prose.

**440 Special Work in Latin (1-6, max 12)**

Prereq: 353. (on demand) Specialized work in selected phases of classical study.

**Modern Languages (Introductory Culture and Civilization; Professional Courses) (ML)**

Note: 250A-D, 410, and 445 do not count toward the major. With departmental approval 250A-D may be applied to the Arts and Sciences humanities requirement.

**250A Field Studies in Austria (1-4, max 4)**

Prereq: perm. Designed to introduce participants in study abroad program to various aspects of life in target country.

**250B Field Studies in France (1-4, max 4)**

Prereq: perm. Use 250A for description.

**250C Field Studies in Mexico (1-4, max 4)**

Prereq: perm. Use 250A for description.

**250D Field Studies in Spain (1-4, max 4)**

Prereq: perm. Use 250A for description.

**250E Field Studies in Russia (1-4, max 4)**

Prereq: perm. Use 250A for description.

**250F Field Studies in Germany (4)**

Prereq: GER 111 or equiv. Designed to introduce participants in study abroad program to various aspects of life in target country.

**321J Writing in Two Languages (4) (1J)**

Prereq: jr, fr comp, FR 213 or equiv. Course designed for the English-speaking student with two or more years of French (or course-specific language) who would like to improve his or her English writing skills using a comparative language approach.

**370J Translation as Writing (4) (1J)**

Prereq: fr comp, jr, 213 FL or Non-nat. An introduction to the practice and theory of translation into English with special emphasis on translation as a form of writing/composition. Analysis and discussion of good writing and of the students' own translations and compositions.

**410 Technology in Language Teaching (4)**

Prereq: EDCI 203 or perm. Use of computers and associated media as correlated with modern language classroom; instruction in selection, preparation, and use of instructional materials and tests, and in successful operation of computers, lab, and classroom equipment. Required of majors who plan to teach.

**435 Teaching Foreign Languages in the Elementary School (4)**

Prereq: perm. Readings and discussions of the cognitive development of children and second language acquisition provide the basis for practical class work. Students design units and prepare learning activities to present in class. Lab experience includes 20 hours observation and participation on the elementary school level. Required of all foreign language majors who plan to teach.

**445 Teaching of Modern Foreign Languages (4)**

Prereq: perm. Not to be counted as hours above 200 for A.B. degree. Study, demonstration, and use of methods and materials for effective modern foreign language instruction. Required of majors who plan to teach.

**Russian (Slavic) (RUS)****111 Elementary Russian (4)**

(fall) Introduction to alphabet, reading, writing, and basic grammar, development of speaking and comprehension skills. Beginning course of 3-qtr 1st-yr sequence.



**112 Elementary Russian (4)**  
Prereq: 111. (winter) Continuation of 111.

**113 Elementary Russian (4)**  
Prereq: 112. (spring) Continuation of 112.

**211 Intermediate Russian (4) (2C)**  
Prereq: 113 or 2-3 yrs h.s. Russian. (fall)  
Continued language study. Review and continuation of grammar. 1st course of 3-qtr intermediate-level sequence.

**212 Intermediate Russian (4) (2C)**  
Prereq: 211 or perm. (winter) Continuation of 211. Extensive reading, writing, listening, and oral practice.

**213 Intermediate Russian (4) (2C)**  
Prereq: 212 or 4-5 yrs h.s. Russian. (spring)  
Accelerated reading, writing, listening, and oral practice. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

**298 Independent Study in Russian (1-2, max 6)**  
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Russian language. Does not count toward minor. Does not satisfy language requirement.

**341 Advanced Conversation and Composition (4)**  
Prereq: 213 or perm. (fall) Development of conversation, reading, and writing skills. Advanced grammar.

**342 Advanced Conversation and Composition (4)**  
Prereq: 341 or perm. Continuation of 341.

**343 Advanced Conversation and Composition (4)**  
Prereq: 342 or perm. Continuation of 342.

**348 The Cultural History of Russia (4)**  
Prereq: 213 or perm. Cultural development of Russia from the 10th to the 17th centuries. Readings and lectures in Russian.

**349 The Cultural History of Russia (4)**  
Prereq: 213 or perm. Continuation of 348. Cultural movements in Russia from the 18th century to the present day. Readings and lectures in Russian.

**355 Introduction to Russian Literature (4)**  
Prereq: 213 or perm. Introduction to literary terms. 19th-century literary movements and authors. Reading and lectures in Russian.

**356 Introduction to Russian Literature (4)**  
Prereq: 213 or perm. 20th- and 21st-century developments in Russian literature. Reading and lectures in Russian.

**396 Internship in Russian (1-5)**  
Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major.

**412 19th-Century Russian Literature (4)**  
Prereq: 355, 356

**429 Russian Literature in the Soviet Era (4)**  
Prereq: 355, 356

**435 Proseminar (1-4, max 12)**  
Prereq: perm. Intensive analysis of major author, literary genre, or theme. May be repeated when subject is changed.

**439 Structure of Modern Russian**  
Prereq: 343 or perm. Advanced grammar and syntax. Emphasis on reading and writing.

**441 Stylistics (4)**  
Prereq: 343 or perm. Advanced writing and stylistic analysis. Practice in variety of nonfiction prose techniques.

**498 Independent Study in Russian (1-2, max 4)**  
Prereq: 341 or perm. Directed individual readings, discussion, and reports at the advanced level. Does not count toward minor.

## Spanish (Romance) (SPAN)

**111 Elementary Spanish (4)**  
Development of comprehension, speaking, and reading skills. Basic grammar. Lab required. Beginning course of 3-qtr 1st-yr sequence. No credit if 199.

**112 Elementary Spanish (4)**  
Prereq: 111. Continuation of 111. No credit if 199.

**113 Elementary Spanish (4)**  
Prereq: 112. Continuation of 112. No credit if 199.

**199 Spanish for Review (4)**  
No CR if 111 or 112 or 113. Preparation for SPAN 211 for students with some high school Spanish. Review of grammar and vocabulary with intensive practice in adaptation to college-level expectations and instructional techniques. Emphasis on all four skills: speaking, listening, reading, and writing. Offered fall quarter. Does not satisfy language or humanities requirements.

**211 Intermediate Spanish (4) (2C)**  
Prereq: 113 or 2-3 yrs h.s. Spanish. Intensive review of grammar. Additional readings, writing, and discussion in Spanish. Supplemental cultural material. Lab requirements may vary. 1st course of 3-qtr intermediate-level sequence.

**212 Intermediate Spanish (4) (2C)**  
Prereq: 211 or perm. Continued review. Additional literary readings with discussion and writing in Spanish.

**213 Intermediate Spanish (4) (2C)**  
Prereq: 212 or 4-5 yrs h.s. Spanish. Continued review, literary readings, discussion, and writing. Selected 20th century Spanish dramatists and novelists with discussion. Completion of 213 fulfills foreign language requirement of College of Arts and Sciences.

**298 Independent Study in Spanish (1-2, max 6)**  
Prereq: 213 or perm. Reading and discussion of assigned materials (books, periodicals, films, tapes) on specific topics involving Spanish language. Does not count toward major or minor. Does not satisfy language requirement.

**341 Advanced Conversation and Composition (4)**  
Prereq: 213 or perm. Conversation and discussion. Emphasis on writing skills.

**342 Advanced Conversation and Composition (4)**  
Prereq: 341 or perm. Equal emphasis on speaking and writing.

**343 Advanced Conversation and Composition (4)**  
Prereq: 341 or perm. Emphasis on speaking.

**345 Business Spanish (4)**  
Prereq: 343. This course, designed for intermediate and advanced students of Spanish, will enable them to achieve a higher level of competence in oral and written communication in order to help conduct business in the Spanish-speaking world. The course is suitable for business majors interested in working with Hispanic clients; international business majors; and undergraduate liberal arts majors wishing to expand their awareness of the Spanish language or seeking positions with companies doing international business.

**348 Spanish Civilization and Culture (4)**  
Prereq: 341 and 343. Survey of Spanish civilization and culture.

**349 Spanish American Civilization and Culture (4) (2C)**  
Prereq: 341 and 343. Survey of Spanish American civilization and culture.

**350 Mexican Civilization and Culture (4)**  
Prereq: 213. Study of Mexican life, language, art, and their regional variation. Offered only in Mexico.

**351 Mayan Civilization and Culture (4)**  
Prereq: 213. Examination of Mayan civilization of yesterday and today, with emphasis on its continuing presence in Yucatan. Offered only in Mexico.

**352 Yucatecan Civilization (4)**  
Prereq: 213, perm of study abroad director. Introduces the student studying abroad with the Ohio University program in the Yucatan to the rich and diverse culture encountered there. Two sections—one theoretical and one applied—will allow the student to begin to understand the sometimes complex issues that form the Yucatecan personality and make it very different from that of other states in Mexico.

**354 Dramatizations of the Hispanic World (4)**  
Prereq: 343. Selected Spanish and Spanish-American plays. Historical developments and movements in Hispanic theater. Terminology. Readings, lectures, and discussion.

**355 Fictions of the Hispanic World (4)**  
Prereq: 343. Selected Spanish and Spanish-American novels and shorter fiction. Historical developments and movements in Hispanic narrative form. Terminology. Readings, lectures, and discussion.

**356 Poetic Images of the Hispanic World (4)**  
Prereq: 343. Selected Spanish and Spanish-American poetry. Historical developments and tendencies in Hispanic verse. Movements and terminology. Readings, lectures, and discussion.

**396 Internship in Spanish (1-5)**  
Prereq: perm of internship director. Practice using the language in a work environment. Does not count for major. Proposals must be submitted beginning of quarter prior to internship.

**398 Internship in Mexico (1-5)**  
Prereq: Prior SA in Mexico and perm of director. This ten-week internship is designed to help that student who already has studied abroad and has spent one quarter in Merida with the Ohio University program, and wishes to return to Mexico to improve oral language skills within the context of an internship.

**425 19th-Century Spanish Literature (1800-1850) (4)**  
Prereq: 2 of 345, 354, 355, 356. Romanticism, costumbrismo, and other movements in drama, essay, and poetry.

**427 19th-Century Spanish Literature (1850-1900) (4)**  
Prereq: 2 of 345, 354, 355, 356. Evolution of the novel in 19th-century Spain, including novels selected from the work of the following: Valera, Pereda, Galdos, Alas, Pardo Bazan, Blasco Ibanez.

**429 Generation of '98 (4)**  
Prereq: 2 of 345, 354, 355, 356. Representative works by early 20th-century Spanish writers, including at least some of the following: Azorin, Baroja, Valle-Inclan, A. Machado, Perez de Ayala, Ortega y Gasset, and Juan Ramon Jimenez.

**432 20th Century Spanish Literature (4)**  
Prereq: 2 of 345, 354, 355, 356. Study of Spanish literature of various genres since 1925. The course may highlight the poetic generation of 1927, contemporary poetry or theater, or the novel of the democratic period.

**435 Proseminar (1-4, max 12)**  
Prereq: perm. Subject will vary. May be repeated when subject changes.

**437 Applied Phonetics (4)**  
Prereq: 343 or perm. Systematic description of the sound system of Spanish.

**438 Hispanic Dialectology and Sociolinguistics (4)**  
Prereq: 343 or perm. Overview of major dialects of the Hispanic world and exploration of the sources of dialectal variation, e.g. age based, gender related and socio cultural, among others. Readings, lectures, class presentations, and discussions.

**439 Modern Spanish Usage (4)**

Prereq: 343 or perm. The grammatical structure of modern Spanish.

**440 Teaching Spanish: Theory and Methodology (4)**

Prereq: 343. This course provides an introduction to the philosophy and theoretical orientation of the teaching of Spanish language and cultures; an introduction to issues in second-language-acquisition research, with a focus on Spanish; and opportunities to develop professional and instructional materials. Does not count toward major.

**441 Stylistics (4)**

Prereq: 343. Analysis of literary styles and study of techniques used to acquire correct style in writing Spanish.

**443 Survey of Spanish American Literature (4)**

Prereq: 2 of 345, 354, 355, 356. Main movements of Spanish American literature from colonial period through Modernismo.

**444 Survey of Spanish American Literature (4)**

Prereq: 2 of 345, 354, 355, 356. Continuation of 443. Main movements of Spanish American literature from Modernismo to contemporary period.

**447 Themes from Spanish American Prose (4)**

Prereq: 2 of 345, 354, 355, 356.

**448 Contemporary Spanish American Literature (4)**

Prereq: 2 of 345, 354, 355, 356.

**453 Drama of the Golden Age (4)**

Prereq: 2 of 345, 354, 355, 356. Works by Lope de Vega, Calderon de la Barca, Tirso de Molina, Juan Ruiz de Alarcón, and related dramatists.

**454 Golden Age Poetry (4)**

Prereq: 2 of 345, 354, 355, 356. Works by Garcilaso de la Vega, San Juan de la Cruz, Luis de León, Lope de Vega, Luis de Góngora, Francisco de Quevedo, and related poets.

**455 Novel of the Golden Age (4)**

Prereq: 2 of 345, 354, 355, 356. Picaresque novel, *Cervantes' Novelas Ejemplares*, and other examples of the novel from this period.

**458 Don Quijote de la Mancha (4)**

Prereq: 2 of 345, 354, 355, 356. Intensive study of Part One and Part Two of Spain's greatest novel.

**498 Independent Study in Spanish (1-2, max 4)**

Prereq: 8 credits at 300 level or perm. Directed individual readings, discussion, and reports in language at advanced level. Does not count toward 400-level hours required for major. Maximum of two credits may count toward minor.

**Swahili (African) (SWAH)****111 Elementary Swahili (4)**

(fall) Beginning course of 3-qr 1st-yr sequence.

**112 Elementary Swahili (4)**

Prereq: 111 or equiv. (winter) Continuation of 111.

**113 Elementary Swahili (4)**

Prereq: 112 or equiv. (spring) Continuation of 112.

**211 Intermediate Swahili (4) (2C)**

Prereq: 113 or equiv. (fall) 1st course of 3-qr intermediate-level sequence.

**212 Intermediate Swahili (4) (2C)**

Prereq: 211 or equiv. (winter) Continuation of 211.

**213 Intermediate Swahili (4) (2C)**

Prereq: 212 or equiv. (spring) Continuation of 212.

**311 Advanced Swahili (4)**

Prereq: 213 or equiv. (fall) Beginning of advanced-level sequence.

**312 Advanced Swahili (4)**

Prereq: 311 or equiv. (winter) Continuation of 311.

**313 Advanced Swahili (4)**

Prereq: 312 or equiv. (spring) Continuation of 312.

**399 Special Studies in Swahili (1-3)**

Prereq: perm. Reading and discussion of arranged assignments in books, periodicals, and tapes on specific topics related to Swahili language and East African culture.

**French**

See Foreign Languages and Literatures.

**Geography (GEOG)****101 Physical Geography (5) (2N)**

Systematic survey of temperature, precipitation, atmospheric and oceanic circulation, and global systems of climate, soils, natural vegetation, and landforms. 4 lec, one 2-hr lab.

**121 Human Geography (4) (2S)**

Examination of spatial dimensions of culture, emphasizing patterns of selected cultural elements—language, religion, population, settlement, political and economic landscapes, and human/environment interactions.

**131 Globalization and the Developing World (4) (2C)**

Survey of globalization and its impact on development, international relations, and culture in developing countries around the world.

**132 World Regional Geography: Industrial World (4) (2S)**

Survey of selected geographic themes: development; people and resources; human and physical environments; and cultural patterns in Anglo-America, Western and Eastern Europe, the former U.S.S.R., Japan, and Australia.

**201 Environmental Geography (4) (2A)**

Geographic survey of environmental changes caused by human activities. Focus on resource availability and use, pollution of air, water, and biosphere, energy problems, interactions of humans with plant and animal communities. 3 lec, one 1-hr discussion session.

**202 Introduction to Weather (5) (2N)**

Students will gain experience in class and in labs in the analysis of weather maps. There will be particular emphasis on weather phenomena presented in the media (global warming, El Niño). Data will be downloaded from website sources for use in the classroom and made available to students on the course Web site for study purposes. Credit not allowed for both 202 and 302.

**232 Geography of Ohio (4)**

Detailed regional study of physical geography of Ohio and its cultural landscapes, settlement patterns, and economic development.

**234 Geography of the United States and Canada (4)**

Regional survey of North America including topical treatment of physical and cultural elements and intensive study of smaller regions.

**241 Global Issues in Environmental Geography (4)**

Prereq: 201. An inquiry approach to environmental issues of global scope such as human population growth, energy production and consumption, climatic change, deforestation, species depletion, disposal of wastes. Examination of the sustainability of human and natural systems.

**260 Maps (4) (2A)**

Introduction to map reading, interpretation, and appreciation. Examination of scale, direction, distortion, projections, and the use of maps to

show physical and cultural landscapes and as everyday means of communication. 3 lec, one 2-hr lab.

**268 Computer Applications in Geography (4)**

Introduction to spatial analysis and mapping techniques applied to geographical problems. Emphasis on acquiring basic skills using geographic information systems.

**271 Introduction to Statistics in Geography (4)**

Prereq: major or minor and 268. Introduction to application of statistics in geography. Includes descriptive statistics, descriptive spatial statistics, normal, poisson and binomial probabilities, hypothesis testing, and inferential statistics through linear regression.

**302 Meteorology (5)**

Prereq: 101. General survey of meteorology with focus on physical principles explaining weather change. 4 lec; one 2-hr, Web-based lab. Credit not allowed for both 202 and 302.

**303 Climatology (5)**

Prereq: 302. Exchanges of energy and moisture and their significance to human utilization of the earth's surface. 4 lec; one 2-hr, Web-based lab.

**304 Observations in Meteorology and Forecasting (2, max 4)**

Prereq: 302. Lab experience in acquisition, measurement, and interpretation of meteorological parameters.

**305 Practicum in Meteorological Forecasting (2)**

Prereq: 304. Lab experience in preparation and dissemination of meteorological forecasts.

**315 Landforms and Landscapes (5)**

Prereq: 101 or GEOL 101. A topical approach to the study of landforms and landforming processes as fundamental elements of the physical environment. Includes landforms created by tectonism, volcanism, gravity, streams, glaciers, waves, and the wind. 4 lec, one 2-hr lab.

**316 Biogeography (4)**

Prereq: 101. An examination of the historical, environmental, and biotic influences that shape spatial patterns of plant and animal distributions and community structure in the contemporary landscape. (Cross-listed with BIOS.)

**320 American Ethnic Geography (4)**

Prereq: 121. Systematic and thematic survey of spatial and cultural patterns associated with ethnicity and ethnic groups in the United States. Emphasis on historical and spatial patterns of immigration, the experience of ethnic groups in American plural society, and ethnic contributions to American life.

**321 Population Geography (4)**

Prereq: jr and 8 hrs GEOG. Survey of global population concerns including historic and contemporary patterns of population growth, distribution, fertility, and impact of these on the environment and economic resources. Population policies and trends in international migration examined, as well as feminist/equity critiques of population as a development problem.

**322 Settlement Geography (4)**

Prereq: jr and 8 hrs GEOG. Survey of American rural settlement and its European antecedents. Emphasis on the evolution and regional variation in property, field, fence, and road patterns on farmsteads and in small towns.

**325 Political Geography (4)**

Prereq: 121 or perm. Systematic examination of basic approaches, historical development, special problems, and spatial concepts in political geography. Case studies emphasize nation-state.

**326 Urban Geography (4)**

Prereq: jr and 8 hrs GEOG. Geographic analysis of cities and urbanization. Examines spatial patterns of cities and factors that lead to growth, decline, and change in urban areas. Introduces models of land use, transportation, population distribution,

ethnic patterns, segregation, employment, urban economies, and housing. Studies impacts of public policy changes and shifting social attitudes on spatial structure of cities, urban life, and city management.

### 329 World Economic Geography (4)

Prereq: 121 or ECON 103. Survey of the capitalist world economy, the rise of core economies, (under) development in the periphery and global economic restructuring.

### 330 Geography of Western Europe (4)

Prereq: jr and 8 hrs GEOG. Topical survey of Europe with emphasis on the geographic and cultural historical factors that influenced landscape and regional patterns in the past and today.

### 331 Geography of Africa (4)

Prereq: jr and 8 hrs GEOG. Systematic examination of four themes in African geography with special emphasis on problems of development.

### 333 Appalachia: Land and People (4)

Prereq: one course in GEOG. Topical and regional survey of Appalachia with emphasis on settlement and expansion, land ownership and speculation, society and culture, and the impacts of natural resource extraction.

### 334 Historical Geography of the United States (4)

Prereq: 121 or HIST 211. Systematic and regional survey of past human geographies of the United States from 1450 until the present. Focus on the development of regional identity over time and space, and manifestations of regional identity in the cultural landscape.

### 335 Geography of Latin America (4)

Prereq: jr and 8 hrs GEOG. Regional survey of Latin America focusing on biophysical systems, rural development, population/migration, cultural geography, and economic development.

### 336 Geography of Religious Space and Place (4)

Prereq: jr. Systematic and regional survey of religious cultural landscapes of the world in comparative perspective. Emphasis on religion as a cornerstone of culture and its manifestations in the cultural landscape. Focus on sacred space and place, pilgrimage, and holy sites in selected religious belief systems.

### 337 Geography of Religion in the United States (4)

Prereq: jr. Regional and systematic survey of religious belief systems in the United States. Emphasis on the analysis of the development of regional religious patterns over time and space and the role played by religion in American life. Focus on selected regional and local manifestations of religious beliefs in the American cultural landscape.

### 338 Geography of Southeast Asia (4)

Prereq: jr and 8 hrs GEOG. Survey of physical geography, natural resources, population, food production, urbanism, and energy within selected regions.

### 344 Agricultural Ecosystems (4)

Prereq: jr and 8 hrs GEOG. Agricultural activity. Systematic analysis of agricultural change and sustainability of agricultural systems in the industrial and developing world. A spatial perspective on the globalization of agriculture, agrobotechnology, and the future of agriculture.

### 350 Land Use Planning (4)

Prereq: jr and 8 hrs GEOG. Survey of land use issues, including mapping, ownership, legal issues, zoning, conservation design in zoning, subdivision regulations, "takings," and habitat conservation planning. Many practical applications are included in the class.

### 353 Environmental Planning (4)

Prereq: jr and 8 hrs GEOG. An introduction to the development, implementation, and operation of agencies to guide land-use development.

Emphasis on interaction between natural and social systems, methods of environmental analysis, and the evolution of environmental planning strategies.

### 357 Environmental Law (4)

Prereq: jr. Legal aspects of both individual environmental and societal environmental rights and duties with respect to constitution, private property, nuisance, negligence, statutes, regulatory agencies, and court decisions. Emphasis on case study of federal, state, and local laws which shaped existing law and those which are likely to shape future legislative and administrative action.

### 358 Environmental Risk Assessment (4)

Prereq: jr. Systematic introduction to the concepts, problems, and methods that guide the identification and assessment of environmental risk with emphasis on natural hazards and their geophysical dimensions.

### 360 Cartography (5)

Prereq: major or minor. Introduction to basic cartography in a contemporary computer environment. Emphasis on map design and principles of aesthetically pleasing maps that are scientifically sound. Projects range from simple compilation of spatial data to multicolor composition. 3 lec, two 2-hr labs.

### 361 Statistical Cartography (5)

Prereq: 360. Application of cartographic techniques to represent quantitative data on computer-generated maps. 3 lec, two 2-hr labs.

### 365 Air Photo Interpretation (4)

Prereq: jr, 101. Principles, techniques, and practice in visual interpretation of air photographic and remote sensing imagery. For geographers, geologists, military, community planners, resource managers, engineers. 3 lec, 2 lab.

### 370 Geographic Information Systems Applications (4)

Prereq: 268 or PBIO 415, and 1 other course in GEOG. Applications of geographic information systems (GIS) to solving spatial problems. Instruction is a problem-oriented approach using desktop GIS. Students will learn how to use vector and grid-based GIS to answer problems with a geospatial component. Course emphasizes methods for importing and integrating data sources and digital boundary files from the Internet and other sources. The purpose is to give students critical thinking skills to solve spatial problems using automated methods. No credit for both 370 and 479.

### 406 Introduction to Synoptic Meteorology (5)

Prereq: 305. The construction and analysis of meteorological models used in the prediction of meteorological phenomena.

### 407 Advanced Synoptic Meteorology (5)

Prereq: 406. Capstone course in meteorology. Advanced topics in synoptic meteorology. Includes lab.

### 411 Advanced Physical Geography (4)

Prereq: 101. Application of physical geographic principles to a specific advanced research theme.

### 417 Landscape Ecology (4)

Prereq: jr, 101 or permission. Explores the reciprocal relationship between pattern and process: how pattern is created on the landscape, and implications of spatial pattern on populations, communities, and ecosystems. Examines the role of humans in influencing landscape pattern and change.

### 418 Research Methods in Plant Biogeography (4)

Prereq: 316 or PBIO 209 or permission. Integrated, problem-oriented introduction to modern biogeographical research techniques. Emphasis on a range of problems: biogeographers address relevant literature, and traditional and contemporary approaches to particular issues. Students will learn by experience how biogeographers gather and weigh evidence about natural and human processes, employ

maps and databases to represent and model real-life situations, analyze spatial, temporal, and functional relationships, and communicate findings. 2 lec, 4 lab.

### 440 Environmental Impact Analysis (4)

Prereq: jr and 8 hrs GEOG. Introduction to analytic techniques, legal responsibilities, and administrative procedures in evaluating environmental impacts of land use change. Practice in production of environmental impact statements and in documenting scientific research.

### 447 Natural Resource Conservation (4)

Prereq: 241. Themes in American environmental history, resource conservation and management, and contemporary environmentalism.

### 456 The City and the Environment (4)

Prereq: 201. Examination of historical and present-day environmental impacts of urban and suburban expansion in a North American context.

### 466 Remote Sensing (5)

Prereq: 271 or equiv. Application of computer-based statistical patterns recognition techniques to the digital analysis and classification of remotely-sensed imagery. Includes lab.

### 468 Automated Cartography (5)

Prereq: 360 or perm. Computer techniques and importation of spatial data from a variety of contemporary sources to generate digital maps using two or more software programs. Projects range from mapping the Athens campus using digital aerial photography to making comprehensive maps via data from the Internet, GPS, and satellite data, suitable for GIS export. Includes lab.

### 471 Quantitative Methods (4)

Prereq: 271, and jr or permission. Systematic survey of methods of multivariate analysis used by geographers.

### 475 Geocomputing (4)

Prereq: jr and 8 hrs GEOG. Introduction to the methods of systems analysis and modeling directed to the study of physical, human, and environmental processes and their interaction at regional and global scales.

### 476 Field Methods (4)

Prereq: 271 or equiv. Introduction to geographic field methods and techniques. Field mapping, data collection, spatial sampling, data analysis, synthesis, and reporting. 2 lec, 4 lab.

### 478 Principles of GIS (5)

Prereq: 260 and 271 or equiv. Systematic introduction to the procedures and techniques that guide the design, implementation, and application of geographic information systems. 3 lec, two 2-hr labs.

### 479 Geographic Information Analysis (5)

Prereq: 478. In-depth examination of the methods of spatial data analysis and the utilization of GIS in geographic problem solving. 3 lec, two 2-hr labs.

### 481 Senior Seminar (2)

Prereq: sr and major. Selected topics.

### 485 Internship (1-15)

Prereq: jr., major, and permission. Provides qualifying students with credit for work-study experience in cartography, remote sensing, land use planning, resource management, and other fields of applied geography. Supervised by geography faculty and evaluated by on-the-job supervisor.

### 486 Practicum in Cartography and Remote Sensing (2-5)

Prereq: 361, 466, jr., major, and perm. Individualized undergraduate thesis level work theoretical or practical in cartography and/or remote sensing.

### 490 Geographic Studies (1-5, max 15)

Prereq: jr and perm. Supervised studies in fundamentals of geographic research.

**494 Field Problems (1-5, max 5)**

Prereq: major or perm. Research on field problem using standard geographic field methods.

## Geological Sciences (GEOL)

**101 Introduction to Geology (5) (2N)**

Nature and distribution of earth materials and their utilization as natural resources; discussion of earth structure, earthquakes, mountain building, and continental drift; development of landscapes. 4 lec, 2 lab. Not open to students who have had 283.

**120 The Mobile Earth (4) (2N)**

An examination of the earth's dynamic systems including continental drift, sea-floor spreading, mountain building, volcanic activity, and earth-quakes, and their explanation in terms of plate tectonic theory. Intended for both science and nonscience majors seeking a nontechnical overview of plate tectonics. 4 lec.

**130 Geology of the National Parks (4) (2N)**

Survey of the geologic features of the national parks of the United States, emphasizing the history of their geologic development. 4 lec.

**170 Ore, Energy, and Society (4) (2A)**

Survey of a broad array of Earth resources with the goal of examining the impact of those resources on society. The influence of plate tectonic processes and Earth's evolution on resource distribution will be considered. The manner in which technological changes in mineral processing are changing recycling rates and are fostering closer connections between industries, the environment, and society will be explored.

**205 Statistical Methods in Geology (4)**

Prereq: 101 (spring) *M. Stoertz*. Elementary statistics applied to geologic data. Use of statistical software, spreadsheets, and tools for geologic data analysis (e.g., Rose and Stiff diagrams). Labs will use data sets from branches of geology including hydrology, sedimentology, geophysics, structural geology, and paleontology. 3 lec, 2 lab.

**211 Introductory Oceanography (4) (2N)**

Survey of physical, chemical, biological, and geological aspects of oceanography. 4 lec.

**215 Environmental Geology (4) (2A)**

Survey of geological aspects of environmental crisis. Focus on major environmental processes, immediate and extended influence of humans, and prospects for future of physical environment. Presupposes no background in sciences. 4 lec.

**221 Earth and Life History (4) (2N)**

*T. Worsley*. A nontechnical survey exploring the 4.5 billion year history of the interaction between life and the environment. Topics include the origin of the earth, the origin and development of life, the origin and evolution of the continents, the history of the atmosphere and ocean, catastrophic extinctions, and the impact of human evolution.

**231 Water and Pollution (4) (2A)**

The interrelationship between geologic and hydrologic principles and technology as they relate to the use of water resources and the environmental problems associated with its pollution.

**255 Historical Geology (4)**

Prereq: 101. (winter) *D. Kidder*. An introduction to the geologic history of the Earth, emphasizing the tectonic, stratigraphic, and climatic record of North America. 3 lec, 2 lab.

**270 World Mineral Resources (3)**

Prereq: soph. Major deposits of metal, nonmetallic, and fuel resources which form backbone of modern industry. Economics and basic geologic controls of mineral production reviewed. 3 lec with demonstrations. Not open to geology majors.

**283 Geology for Engineers (4)**

(fall) Geologic principles applied to engineering projects and materials. 3 lec, 2 lab. Not open to students who have had 101.

**312 Earth Materials and Resources (5)**

Prereq: 101, CHEM 122 or 152, nonmajors only. *G. Heien*. An introduction to minerals and rocks, emphasizing common varieties and those important as mineral resources. 3 lec, 4 lab.

**315 Mineralogy (5)**

Prereq: 101, CHEM 122 or 152. (fall) *G. Heien*. Crystallography, crystal chemistry, and mineralogy, emphasizing mineral identification and formation and association of minerals in different geologic environments. 3 lec, 4 lab.

**320 Petrology (4)**

Prereq: 315. (winter) *D. Schneider*. Characteristics and origin of igneous, sedimentary, and metamorphic rocks and their identification in hand specimens. 2 lec, 4 lab.

**330 Principles of Geomorphology (5)**

Prereq: 101. (spring) Basic concepts of origin and development of landforms. Lab study of topographic maps and aerial photographs. 4 lec, 2 lab.

**340 Principles of Invertebrate Paleontology (4)**

Prereq: 101, 255. (fall). Invertebrate fossils emphasizing theory of their study, morphology, classification, and biologic relationships. 3 lec, 2 lab, field trip.

**350 Stratigraphy-Sedimentology (4)**

Prereq: 255 or concurrent, 320. (spring) *E. Gierlowski-Kordesch*. Introduction to principles of stratigraphy and sedimentation. Interpretation of depositional environments and their relation to plate tectonic setting. 3 lec, 2 lab.

**360 Structural Geology (5)**

Prereq: 350. (fall) *D. Nance*. Principles of rock deformation and interpretation of folding and faulting and related topics. Field-oriented structural problems, structural maps, and use of stereographic projections. 4 lec, 2 lab, field trip.

**405 Modeling and Computational Methods in Geology (5)**

Prereq: CS 220 or 230, MATH 163B or 263B, GEOL 205 or MATH 250. (spring) *D. Lopez*. Applied computer-based mathematical methods in geology. Basic geostatistical concepts. Data analysis, conceptual models, and hypothesis testing in geological problems. Mathematical simulation of geological processes and analysis of solutions. Programming exercises in Fortran and use of software to model processes in hydrogeology, geochemistry, and other fields of geology. 4 lec, 2 lab.

**420 Petrography (5)**

Prereq: 320, 350, or concurrent. (spring) *D. Schneider*. Petrogenesis of igneous, metamorphic, and sedimentary rocks and their identification via microscopic analysis of thin sections. 3 lec, 4 lab.

**427 Water Geochemistry (4)**

Prereq: 101, CHEM 123 or 153. *D. Lopez*. (fall) Geochemical origin of major ions in natural waters and the role of fluid-mineral interactions in the evolution of sediments, the ocean, and the atmosphere. Major geochemical cycles. Introduction to thermodynamical equilibrium, kinetics, complexation, oxidation-reduction, and cation exchange. Case studies of important geochemical and environmental issues. 3 lec, 2 lab.

**428 Physical Geochemistry (4)**

Prereq: 427. *D. Lopez*. (winter, alt.) Basic principles of physical chemistry for hydrogeologic, environmental, and geologic applications. Topics include adsorption and desorption reactions, chemistry of sulphur and iron, introduction to stable isotopes, transport mechanisms of chemical species, and origin, formation, and migration of oil. 3 lec, 2 lab.

**429 Contaminant Geochemistry (4)**

Prereq: 101, 427. *D. Lopez*. The main purpose of this course is to provide students with knowledge of the chemical principles and processes involved in the generation and movement of contaminants. It will give students an understanding of the sources, fate, and chemical behavior of some of the most important classes of chemical pollutants. 4 lec.

**432 Origin and Classification of Soils (4)**

Prereq: 330. Consideration of concept of soil and factors of soil formation, introduction to soil morphology and systems of soil classification, discussion of major soil groups of world and soils of Ohio. 3 lec, 2 lab, field work.

**433 Glacial Geology (4)**

Prereq: 330, 350. Formation and behavior of glaciers, past and present, consideration of glacial processes, and causes and implications of ice ages. 3 lec, 2 lab, field trips.

**435 Quaternary Geology (4)**

Prereq: 330, 350. Evaluation of the several geological records of Quaternary environmental change, including geomorphic land forms and sediments, ice cores, soils, organic sediments/fossils, cave deposits, tree rings, and others. Quaternary geochronology will also be considered.

**439 Fluvial Geomorphology (4)**

Prereq: 330 or GEOG 315. *G. Springer*. Study of stream processes and human interactions with rivers, including the qualitative and quantitative techniques used to study natural and disturbed streams as presented in lecture and field settings. 4 lec.

**443 Advanced Invertebrate Paleontology (5)**

Prereq: 340. (winter) *R. Mapes*. Study of selected groups in Phylum Mollusca with details of modern biology, environmental habitats, life modes, etc., applied to fossil record. 3 lec, 4 lab.

**446 Earth Systems Evolution (4)**

Prereq: 312 or 350; PHY5 201 or 251. (winter) *T. Worsley*. Synthesis of the coupled histories of the earth's interior, surface, and life. 3 lec, 2 lab.

**451 Diagenesis (4)**

Prereq: 424. *D. Kidder*. Critical view of diagenetic principles using numerous examples. Many topics are selected from recent journal articles. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

**452 Depositional Environments (4)**

Prereq: 350. *D. Kidder*. Advanced coverage of depositional processes and environments. Latter part of course focuses on global sedimentation and events. Students read, present, and discuss current literature, as well as writing a term paper. 4 lec.

**453 Physical Limnology (4)**

Prereq: 101, CHEM 123 or 153. (Fall) *E. Gierlowski-Kordesch*. Physical parameters and processes in lake environments, including temperature, light, heat, oxygen, alkalinity, and dissolved ions. Labs include outdoor sampling and measurements. 3 lec, 2 lab.

**457 Petroleum Geology (4)**

Prereq: 360 or concurrent. (spring) *G. Nadon*. Course is designed for geology students at the senior undergraduate and graduate level. It will provide students with an understanding of the basic concepts and processes that govern a) the generation, migration, and trapping of hydrocarbon resources, and b) the fundamentals of exploration for, and exploitation of, these resources. 3 lec, 2 lab.

**458 Fluvial Sedimentology (4)**

Prereq: 350. (Fall) *G. Nadon*. Provides students with an understanding of how to interpret the depositional environment of sedimentary rocks deposited by rivers and the large and small-scale forces that control the formation and preservation of these deposits.

**464 Regional Tectonics (4)**

Prereq: 360. (spring) *D. Nance*. Global tectonics and structure of continental cratons and margins, mid-ocean ridges, island arcs, and major orogenic belts. 4 lec.

**466 Geodynamics: The Earth's Interior (4)**

Prereq: 312 or 320. (spring) *D. Green*. Solid earth geophysics (gravity, magnetism, seismicity, heat flow) and internal structure, dynamics, and evolution of Earth's core, mantle, and crust. 4 lec.

**467 Tectonophysics (4)**

Prereq: MATH 340, PHYS 202 or 253. (winter) *D. Green*. Quantitative modeling of solid earth physical processes. Physical properties of minerals, rocks, and unconsolidated materials. Modeling of tectonic plate flexure, geothermal heat flow, seismic wave propagation, and fault mechanics. 4 lec.

**471 Advanced Environmental Geology (4)**

Prereq: 101, CHEM 123 or 153. (fall) *D. Lopez*. Covers the conceptual basis for understanding transport and reaction processes that govern change in many environmental systems. Emphasizes processes occurring at the three major environmental interfaces: air and water, water and the adjoining earthen material, and air and soil. Includes chemical and thermal equilibrium, chemical transport, and transport and transfer of energy across the interfaces. 4 lec.

**475A Field Camp I (4)**

Prereq: 360. (fall) *D. Schneider, G. Nadon, D. Nance*. Introduction to field mapping techniques based on projects in the Appalachian region. This course, only in combination with GEOL 475B (Field Camp II), satisfies the field camp requirement.

**475B Field Camp II: Death Valley (5)**

Prereq: 475A. (winter intersession) *D. Schneider, G. Nadon, D. Nance*. Application of field and mapping techniques learned in GEOL 475A, based on projects in the Death Valley region. This course, only in combination with GEOL 475A (Field Camp I), satisfies the field camp requirement.

**476 Subsurface Methods (4)**

Prereq: 350, PHYS 202 or 253. (winter) *G. Nadon*. Resumé of drilling, sampling, and logging by electric, radioactivity, temperature, and neutron methods as applied to petroleum exploration, water, and engineering projects. 3 lec, 2 lab.

**480 Principles of Hydrogeology (4)**

Prereq: 101 or 283, MATH 163B or 263B, PHYS 202 or 253. (fall) *M. Stoertz*. Principles governing occurrence, movement, and recovery of water in soil and aquifers. Hydrologic cycle, water budget, hydrology of agriculture, watershed studies, water chemistry, and pollution. 3 lec, 2 lab.

**481 Groundwater Flow Modeling (4)**

Prereq: 480. (winter) *M. Stoertz*. Steady and unsteady flow to well, analysis of pumping test data, water well design, well development, interference of wells, and design of well fields. 3 lec, 2 lab.

**482 Transport Processes in Groundwater (4)**

Prereq: 481, MATH 340. (spring) *D. Lopez*. Basic principles and fundamental equations, D.E. of groundwater motion, solution of boundary value problems for different types of aquifers. Analytical and numerical methods in subsurface hydrology with emphasis on finite difference method, digital model. 4 lec.

**483 Field Hydrology (6)**

Prereq: water resources background. (summer) *K. Edwards, D. Green, D. Lopez, M. Stoertz*. Field training in techniques of hydrology, hydrogeology, chemistry, and water resources evaluation. 3 vks.

**485 Introduction to Applied Geophysics (4)**

Prereq: PHYS 202 or 253. (fall) *D. Green*. Introductory course in environmental and geotechnical geophysics. Survey of applied geophysical methods including seismic, gravity, magnetic, electrical, and electromagnetic techniques. 3 lec, 2 lab.

**486 Applied Seismology (4)**

Prereq: 485. (spring) *D. Green*. Field methods and analysis techniques for seismic characterization of shallow subsurface, multichannel digital data acquisition, generalized reciprocal refraction and common offset refraction techniques as practiced in environmental and geotechnical industries. 4 lec.

**489 Advanced Topics in Hydrogeology (1-4)**

Prereq: 480, perm. *M. Stoertz, D. Lopez*. In-depth study of an advanced or current topic in hydrogeology, exploring (but not limited to) such areas as karst hydrogeology, fracture-flow hydrology, mine hydrology, unsaturated flow, and inverse modeling. Consult instructor for topics.

**490 Seminar in Geology (1-2)**

Prereq: perm. Several seminars on specific topics in geological sciences will be offered yearly. It is recommended that all majors participate in at least one seminar.

**491 Geologic Studies (1-6, max 12)**

Prereq: perm. Staff. Individual or small group independent study arranged with faculty members.

**492 Internship (1-15)**

Prereq: perm. Provides qualified students with the opportunity to receive credit for work experience directly related to the geological sciences. Supervised by geological sciences faculty and evaluated by an on-the-job supervisor. A report detailing the internship activities is required before credit is awarded.

**495 Senior Thesis (1-5)**

Prereq: perm. Independent research project requiring departmental approval of thesis proposal before registering. Required for departmental honors program.

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## German

See Foreign Languages and Literatures.

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## Gerontology

**Undergraduate Certificate**

The Colleges of Health and Human Services and Arts and Sciences cosponsor a Gerontology Certificate Program for students who desire to supplement their undergraduate curriculum with a career in working with or for the elderly. Traditional aging-related content, and the global impact of aging are linked with program initiatives that enable students to appreciate how this growing population affects their own area of study. Health care, social services, recreation, mental health, education, administration, and business are examples of service areas that now employ large numbers of persons working with and for the aging population. This program is open to any undergraduate student in the University. See the College of Health and Human Services section.

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## Global Learning Community (GLC)

**100 The Global Experience (1)**

Prereq: Fr or soph. To raise the awareness of a broad range of global issues from an interdisciplinary perspective. To use a problem-based format to address these issues. To foster contacts between American and international students in order to learn about other countries and cultures. To encourage teamwork and collaboration among students and faculty from different disciplines—both face to face and by using Intranet communication software.

**201 Global Learning Community Introductory Project (3)**

Introduction to project-based learning. Team research and analysis of global issues, with an emphasis on business, communication, and international relations. Perform country, industry, and company analyses; recommend options and solutions; and present ideas orally and in writing. Sample projects: Should McDonalds continue to invest in Russia? Should Wal-Mart expand into Malaysia? Should Amazon.com stay in the French and/or German markets? What should Starbucks' strategy be in Southeast Asia? (2001)

**202 Business and Communication in Transitional Societies (5)**

Prereq: soph. (fall and two weeks of winter intersession) Two-stage project focusing on issues and challenges faced by companies, organizations, and nongovernmental organizations in transitional societies. In stage one, teams undertake a country analysis and develop a communications campaign to promote the country to a global media audience. In stage two, work continues in bi-national teams on projects for companies or organizations. Two weeks of winter intersession are spent overseas (Hungary; Ecuador; Czech Republic; Thailand) conducting the project. Sample projects: How can Hungary tell its story through the global media? What story can Ecuador tell through the global media to promote its economic goals? How can Brno tell its story through the media? How can a Bangkok enterprise tell its story through the media?

**203 Building Cross-National Alliances (4)**

Prereq: 201, 202. (winter) Understanding barriers and opportunities in countries and regions at various stages of development, and the significance of cross-national alliances. Team research and analysis of global ventures in various fields, accounting for relevant legal, economic, political, and social factors. Sample projects: Investigate potential market entry for satellite cell phones in China, Australia, Italy, Japan, Brazil, and Kuwait. Building institutional partnerships for student exchange and study abroad programs in Argentina, Ghana, Morocco, and Turkey. World Music and Social Change.

**204 Communication and Development (4)**

Prereq: 201, 202. (winter) Research and analysis of how communication can be used to promote development in such areas as agriculture, education, public health, the environment, nation-building, and political and social democracy. Examines changing definitions of development and places emphasis on understanding the historical, social, economic, and political circumstances that impact development and communication strategies used to promote development. Sample projects: Research development needs in a specific country and write a grant proposal for a communication campaign to address these needs.

**205 Global Leadership Conference (2)**

Prereq: 203, 204. (spring) Teams plan a conference on global issues in business and communication. Selection of a conference theme and topics from proposals submitted by teams. Teams assigned specific planning tasks, such as panels and speakers, budget and funding, logistics, and publicity.

**301 Global Economic Trends and Strategic Alliances (4)**

Prereq: 205 or perm. (fall) Focuses on how strategic alliances are shaping and changing economic and political relations among the countries of the world, and the impact of such changes on society and culture. Research the development of bilateral trade relations, regional economic groups, and the growth and interdependency of global financial markets. Analysis of how such economic alliances are reflected in geopolitics and international diplomacy, and in cooperative global initiatives in such areas as natural resources, space exploration, education, and sports. Sample project: research global mergers, joint ventures, and alliances in the airline, automotive, and telecommunications industries.



**302 Global Competition and Industry Trends (4)**

Prereq: 301 or perm. (winter) Understanding international trade and global industry structures by comparing and contrasting joint ventures, mergers, and acquisitions. Comparison of markets and industries to determine the advantages and disadvantages of global and cross-industry expansion, and assessment of strategies for entry into new markets or new industries.

**303 Starting a New Venture/Initiative (4)**

Prereq: 302 or perm. (spring) Development and launch of a new venture or initiative for a national, regional, or global market or audience. Broadly defined to include commercial products and services, not-for-profit initiatives in education, or social and economic development. Identification of target market/audience; analysis of competition or environmental assessment; preparation of a business plan with detailed financial information, marketing strategy, and assessment of human resources and training needs.

**400 International Internship (0-6)**

International internship that allows students to apply the knowledge and skills obtained in two years of project-based learning on global issues. Taken after sophomore year, with faculty approval, during summer, or fall or winter quarters. Written report and oral presentation on internship experiences to sophomore and junior GLC students upon return.

**Government**

See Political Science.

**Greek**

See Foreign Languages and Literatures.

**Hazardous Materials Technology (HMT)**

The following courses for the A.A.S. in hazardous materials technology are available only on the Chilloicthe campus:

**110 Hazardous Materials Regulation I (4)**

Addresses U.S. laws and regulations that pertain to environmental law and liabilities associated with handling hazardous materials. Topics include the basics of environmental law, liability and enforcement, Resource Conservation and Recovery Act (RCRA), transportation of hazardous materials, and the Clean Air Act. Current events will be discussed and analyzed.

**120 Hazard Communication Standard (3)**

Emphasis on hazard communication programs, their development and implementation, and their compliance with federal Hazard Communication Standard and "Right-to-Know" laws. Topics include Material Safety Data Sheets (MSDS), written programs, employee training, and labels and placarding.

**130 Industrial Processes (3)**

Generation of hazardous materials in such settings as electroplating, metal finishing, printed circuit board production, oil refining, chemical production, steel production, paper industry, and various other production areas. Emphasis on acute and chronic exposure. Hazardous materials handling and minimized waste generation will be covered.

**140 Hazardous Materials Regulation II (4)**

Prereq: 110. The Environmental Protection Agency (EPA) is the major focus. Included are the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); Superfund Amendments and Reauthorization Act (SARA); the Clean Water Act; the Safe Drinking Water Act; the Oil Pollution Act; and the National Environmental Policy Act (NEPA). Regulatory

compliance is a major topic, with some case studies.

**150 Emergency Response I (3)**

Emphasizes the development of emergency response contingency plan for a facility. Includes analyzing hazards, writing and implementing contingency plans, training employees for an emergency, and evaluation of the contingency plan. Emergency operations are also explored, with emphasis on field exercises incorporating drum handling, instrumentation surveying, decontamination procedures, personal protective equipment, and medical evaluations.

**200 Hazardous Materials Recovery, Incineration, and Disposal (4)**

Prereq: EVT 100. Directed toward the recovery, incineration, and disposal of hazardous waste. Topics include the contracting of qualified disposal organizations, obtaining permits, and ensuring compliance of hazardous waste. On- and off-site treatment technology as well as chemical and physical characteristics of hazardous materials and waste are discussed. Environmental contamination for air, water, and land is explored. Some air dispersion modeling is included.

**210 Hazardous Materials Regulation III (4)**

Prereq: 140. Final course in the regulation series; addresses the Toxic Substances Control Act (TSCA), asbestos regulations, pesticides, the Emergency Planning and Community Right-to-Know Act (EPCRA), and the OSH Act. Case studies, class participation, and reports are emphasized.

**220 Hazardous Materials Health Effects (3)**

Prereq: BIOL 101. Literature review of human health risks related to chemical exposures. A study of risk factors, types of chemical entry, effects on organs, acute and chronic effects, and measures to control exposure.

**230 Emergency Response II (3)**

Prereq: 150. Application of emergency response procedures under simulated emergency conditions. Students respond to the emergency, assess the seriousness of the incident, supervise cleanup, and provide information to the public and media. Students successfully completing this course will be certified at the First Responder Awareness Level and Operations Level.

**240 Hazardous Materials Testing (4)**

Prereq: 200. Development of an effective field sampling program for hazardous materials. Includes proper sampling procedures, use of hazardous materials testing equipment, and chemical analysis of hazardous waste materials. Students will become proficient in the use of sampling equipment as well as portable and laboratory-based qualitative and quantitative analytical apparatus used in routine and emergency situations.

**289 Special Topics (1-5)**

Prereq: 100, HMT advisor perm. Special topics in hazardous materials. Areas include OSHA's 40-Hour Compliance Training, instrumentation, internships, co-ops, and special studies.

**Health and Human Services (HS)****102 HCOP Six-Week Skill Enrichment (5)**

Prereq: HCOP student. Six-week prematriculation program for entering minority freshmen majoring in selected health-related programs. Skill enrichment in math, biology, composition, computer word processing, and study techniques through lecture and lab experiences. Clinical visits and observations at various health care facilities provide students with exposure to allied health professions.

**491 Special Topics in Gerontology (1-4; maximum credit from all enrollments is 8)**

Prereq: jr. Examination of various contemporary trends and issues in the study of geriatrics. Draws upon current literature and research for in-depth consideration of special topics in gerontology.

**Health Sciences****Environmental Health (EH)****260 Introduction to Environmental Health and Safety (4) (2A)**

Survey of technical and administrative procedures needed to control the environment, especially as they relate to health effects encountered in daily activities. Emphasis on general ecological environmental protection and environmental degradation, along with safety concepts, practices, and procedures. 4 lec.

**275 Environmental and Occupational Health and Safety Regulations (4)**

Overview of the history, development, and current application of major regulations, amendments, and reauthorizations related to the environmental and occupational health and safety regulatory process. 4 lec.

**310 Water Supply and Wastewater Environmental Health Practice (4)**

Prereq: 260, CHEM 153. Examination of processes for the development of water resources, quantity and quality requirements, preventive control measures and treatment, collection of wastewaters, and treatment for disposal or reuse. Health implications of water quality management stressed. 3 lec, 2 lab.

**312 Solid and Hazardous Waste Management (4)**

Prereq: 260. Problems in and solutions to the storage, collection, and disposal of hazardous and nonhazardous wastes with special emphasis on life cycle analysis and risk assessment. 4 lec.

**320 Shelter Environments (4)**

Prereq: 260. Physiological and psychological aspects of exterior and interior environmental concerns. Emphasis on housing standards, building codes, vector control, separate concerns of urban and rural housing, migrant labor housing, mobile home construction, and mobile home park design. 4 lec.

**330 Food Quality Control (4)**

Prereq: 260; BIOS 221, 222. Emphasizes the topics of foodborne diseases and regulatory programs relative to sanitary inspection and control of food service and processing systems. 3 lec, 2 lab.

**425 Environmental Health and Safety Risk Communication (4)**

Prereq: 260. Hands on application of principles in communicating environmental health and safety risks to the public. Students will work with current environmental health and safety issues to develop and implement risk communication plans. 4 lec.

**430 Vector Control and Pesticide Use (4)**

Prereq: 260. Vectors responsible for rodent- and anthropoid-borne diseases of medical and veterinary importance with special emphasis on human health and welfare implications. 3 lec, 2 lab.

**440 Air Quality and Pollution Control (4)**

Prereq: 260, CHEM 153. (Evaluating and monitoring air quality; effects of pollution control and lab procedures in air quality investigation. Special emphasis on air pollution's effects on human health and welfare. 3 lec, 2 lab.

**450 Institutional Environmental Health Practice (4)**

Prereq: 260. Emphasis on the institutional aspects of shelter as they relate to disease prevention and control within hospitals, nursing homes, day care centers, schools, and correctional facilities. 4 lec.

**455 Recreational Environmental Health Practice (4)**

Prereq: 260. Broad view of all major aspects that should be considered in the planning, development, and operation of recreational environments as they relate to proper environmental health protection. 4 lec.

**457 Occupational Safety and Health Administration (4)**

Prereq: 260. Provides knowledge and understanding of processes involved in the development and implementation of environmental health and safety programs. Focus on design, implementation, maintenance, and evaluation of workplace safety programs, with emphasis on inspection programs, planning, administration, and communication. 4 lec.

**464 Environmental Health Practicum (15)**

Prereq: sr, perm, major. Supervised learning experience in an approved clinical/environmental health facility designed to provide the student with practical comprehensive opportunities in environmental health to enhance and complement required classes.

**490 Independent Study (1-5)**

Prereq: major and perm.

**491 Environmental Health/Industrial Hygiene Professional Topics Seminar (1-4)**

Prereq: 260, jr or sr. Provides a forum for students interested in environmental health, safety, and industrial hygiene to express their views on current topics in the profession. Instructors will facilitate reviews of current research, emerging interest areas, graduate education, the job market, and among other topics. 1-4 lec.

**Health Sciences (HLTH)****101 Introduction to Health and Human Services Professions (2)**

Course examines various roles of health care professionals in health care delivery system, describes education and training program options, explores opportunities for employment, and introduces medical terminology. Students receive credit (CR), not a letter grade. 2 lec.

**105 Preventing Sexual Violence (4)**

(fall, spring) Provides both male and female students with information about sexual violence, its different forms, frequencies, and impact. Students gain an understanding of cultural influences, offender and survivor characteristics, and support services. Information and skills directed at reducing students' likelihood of being involved in sexually offensive/violent situations. 4 lec.

**202 Introduction to Health and Lifestyle Choices (4) (2A)**

Prereq: fresh or soph. Practices and appreciation of means whereby health of individual and group may be maintained. 4 lec.

**203 Foundations in Health Education (4)**

Examines both theory and practice, including terminology, theoretical models, health issues, health organizations, employment opportunities, historical contributions, ethics, and relationship to the remainder of the medical community. 4 lec.

**204 Alcohol, Tobacco, and Other Drugs (4)**

Presents basic pharmacology and toxicology of common drugs, alcohol, and tobacco and consequences of their abuse. 4 lec.

**205 Preventing HIV and STIs (4)**

Examines the signs and symptoms, methods of transmission, treatment, and prevention of HIV and sexually transmitted infections (STIs). Emphasis on education as a means to reduce the risks of becoming infected. 4 lec.

**210 Health of Women (4)**

The health needs and concerns of women within the physical, mental-emotional, and social dimensions of functioning are examined. Emphasis on women as health care and product consumers. 4 lec.

**212 Controlling Stress and Tension (4)**

Prereq: 202. Holistic approach to stress management covering recognition of tension, physiological response, relaxation techniques, and individual stress profile. 4 lec.

**215 Violence in America (4)**

Focuses on the etiology and prevention of violence as it occurs in the home, workplace, on

American highways, and in the daily interactions with others. Emphasis placed on gender violence etiology, prevention, and reporting. 4 lec.

**217 Introduction to Health Care Organizations (4)**

Prereq: 202. Focuses on U.S. health system, describing health care institutions, providers, payment practices, and significant health legislation. Discusses trends and future perspectives against historical background. Assists manager to develop panoramic view of health care organizations. 4 lec.

**225 Long-Term Care Administration I (4)**

Prereq: MGT 200. (fall) Presents laws, regulations, and standards that impact long-term care facilities management. Discusses client rights and responsibilities and their implications in managing such facilities. Stresses ethical and moral issues confronting manager. Reviews risk management and strategies for providing safe and comfortable environment. 4 lec.

**230 Medical Terminology (2)**

Prereq: BIOS 103 or BIOS 170. Medical terms associated with body systems, disease processes, laboratory tests, and clinical procedures commonly found in the health care setting. Emphasis on the development of appropriate administrative policies and procedures based on selective disease processes. 2 lec.

**270 Family and Consumer Health (4)**

Covers consumer health issues, health quackery, purchasing health products and services, alternative health care, and marketing strategies. Regional practices within the U.S. will be discussed. 4 lec.

**290 Health Aspects of Aging (4)**

Theories of aging involving changes in structure and performance. Emphasis on normal aging changes, mental changes, mental health, health promotion, and community health. 4 lec.

**300 Worksite Health (2)**

Prereq: jr. Examination of worksite health programs. Guidelines for development of health promotion programs in corporate settings discussed. 2 lec.

**316 Human Resource Management and Training in Health Care (4)**

Introduces students to the management and development of personnel within various health care settings. Examines and analyzes various human resource issues within the unique health care arena. 4 lec.

**320 Strategies for Communicating Health Information (4)**

Prereq: 202, jr. Instruction, principles, and curricula used in presenting health information at the preschool, elementary, middle, and secondary school levels. 4 lec.

**325 Long-Term Care Administration II (4)**

Prereq: 225. (winter) Presents managerial ideologies important to manager of long-term care facilities. Fully develops role of administrator in planning, organizing, directing, controlling, and staffing for specific services of long-term care facilities within holistic framework for client care. Studies professional relationships and coordinating function of manager. Includes contributions of rehabilitation and recreation services to long-term care. 4 lec.

**330 Community Health Epidemiology (4)**

Prereq: 202, jr. Use of epidemiology by community health providers to prevent health disorders and to plan for meeting the health needs of populations. Special focus on the use and interpretation of morbidity and mortality data in studying acute and chronic disorders. 4 lec.

**335 Administration of Acute Care Facilities (4)**

Prereq: jr. (winter, spring) Focuses on the understanding, skill, and ethical issues important to the management, organization, planning, financing, and evaluation of an acute health care facility and its services to patients. Emphasis on

the administrator's role in an acute health care facility. 4 lec.

**340 Contemporary Problems in Health Care Organizations (4)**

Prereq: jr. (fall, winter) Identifies the major issues in the development and management of a wide range of health care programs and organizations. Provides exercises in the application of management skills necessary to confront the major changes and problems identified. 4 lec.

**345 School Health (4)**

Prereq: jr. Principles, problems, organization, and administration of school health programs, including health services, healthful school environment, health instruction, and school and community relationships. 4 lec.

**350 Independent Study (1-5)**

Prereq: jr, perm. Study and/or research in selected topics of interest to students in health sciences.

**364 Community Health Field Experience (1-5)**

Prereq: 202, jr. Observation and participation in activities of community health agency or medical facility or program.

**370J Writing for Health Sciences (4) (1J)**

Prereq: jr or sr. Designed to improve the technical writing skills of students in health or health-related fields. Writing tasks are designed to provide students with experience in writing within formats and subject areas of their field of study. 4 lec.

**390 Community Health (4)**

Prereq: 202, 204, jr. Institutional frameworks for promoting and maintaining health of people of community, state, and nation. 4 lec.

**405 Long-Term Care Administration III (4)**

Prereq: 325. (spring) Deals with administrative processes in long-term care management. Orients student to modern information systems and use of data in managing decision action and record keeping. Presents content on building effective public relations, managing volunteer programs, and in supporting client governance. Prepares student to sit for licensure exams. 4 lec.

**406 Alternatives to Traditional Long-Term Care (4)**

Prereq: 217; 325 or 335. Exposes the student to information related to alternative forms of delivery for long-term care. Major thrust directed to assisted living operations and regulations. 4 lec.

**410 Health Issues: U.S. Underserved Populations (4)**

Prereq: jr, 202, 204, 390. In-depth analysis of critical health issues germane to underserved populations in the United States. Emphasis on those groups suffering the most profound consequences of health problems and disease. 4 lec.

**412 International Health Programming (4)**

Prereq: jr. Addresses diverse, rapidly changing health problems in underdeveloped and industrialized countries while exploring roles of health professionals. Surveys program interventions and solutions that are available or under development. 4 lec.

**418A Instructional Experiences (1-3)**

Supervised practice in organizing and teaching activities in college.

**419 Health Education for the Elementary School (4)**

Prereq: 202. Application of principles of curriculum development, identification of appropriate concepts and practices, and use of teaching methods and resources at elementary school level. 4 lec.

**421 Financial Administration of Health Care Facilities (4)**

Prereq: ACCT 101 or 201, sr. Emphasis on the interpretation and application of accounting and financial concepts of health services with an introduction to strategic financial planning. 4 lec.

**422 Reimbursement Payment Systems in Health Care Organizations (4)**

Prereq: 421, sr. Analysis of reimbursement systems for acute care, long-term care, home care, and alternative care systems. Both current and projected systems will be examined. 4 lec.

**464 Community Health Services Practicum (15)**

Prereq: 364, sr, perm. Participation in activities of official or voluntary public health agency. Supervision of experience to be done by agency personnel and University faculty.

**470 Advanced Community Health (4)**

Prereq: 300, 345, 390. Combines lecture with practical experiences with student using previously learned content to develop relevant community health programs. Knowledge of assessment, planning, implementation, and evaluation are required. 4 lec.

**480 Practicum in Health Services Administration (10)**

Prereq: perm. Provides a practical field experience in the operational skills necessary to manage a health care organization. The student works under the direct supervision of health care managers and carries out assigned tasks, which may include the direct provision of care, development of programs, maintenance of systems, and management of data.

**481 Internship in Health Administration (15)**

Prereq: perm, completion of coursework. Provides an administrative/programmatic experience under the direct supervision of an administrator in a health-related organization. Students complete supervised projects, plans, and other administrative tasks under the joint supervision of a health care facility administrator and a University faculty member.

**489 Community Health Planning and Administration (4)**

Prereq: sr. Effective planning and management techniques germane to community health service settings in regard to approaching and addressing health problems. Emphasis placed on assessing health needs, relating those needs to particular population groups, analysis of the economics involved, program recommendations, as well as program implementation. 4 lec.

**490 Independent Study (1-5)**

Prereq: jr or sr, perm. Allows for special study of topics of interest to students of health care programming and administration.

**491A-F Special Topics Workshops (1-3)**

Prereq: perm. (A) focuses on administrative practices and issues; (B) focuses on environmental and occupational health and safety; (C) focuses on legal aspects; (D) focuses on client-centered care programs; (E) focuses on team-building and interpersonal relationship skills; and (F) focuses on intercommunity relationships and consortia arrangements.

**Industrial Hygiene (IH)****200 Introduction to Industrial Hygiene and Occupational Safety and Health (4)**

Introduction to occupational safety and health and industrial hygiene including historical developments, health and safety program concepts, social and legislative requirements, professional relationships, and general introduction to concepts of anticipation, recognition, evaluation, and control of exposures. 4 lec.

**400 Industrial Hygiene Sampling and Analysis (5)**

Prereq: 200. Lectures and lab to introduce field sampling and lab instrumentation and analytical methods common to industrial hygiene. Students required to interpret readings, analyze samples, and prepare appropriate reports. 3 lec, 3 lab.

**401 Toxicological Effects of Hazardous Materials (4)**

Prereq: 200. Basic toxicology of hazardous dusts, fumes, vapors, gases, and liquids found in the workplace. Techniques necessary to recognize, evaluate, and control exposure to organic solvents, metals, asbestos, lead, radon, and other substances will be introduced. 4 lec.

**405 Ventilation for Contaminant Control (4)**

Prereq: 200. Designed to impart a working knowledge of the principles, methods, and practices of controlling worker exposure to hazardous concentrations of air contaminants and to present logical methods of design, evaluation, and maintenance of such systems. 4 lec.

**410 Physical Hazards: Evaluation and Control (4)**

Prereq: 200. Designed to provide a functional knowledge of methods used to evaluate and control noise, vibration, heat, light, and other factors affecting the health and well-being of the worker. 4 lec.

**415 Introduction to Radiological Health: Evaluation and Control (5)**

Prereq: 200. Introduction and overview of health effects of various sources of radiation including sources, evaluation, safety, and control factors. 3 lec, 3 lab.

**420 Hazardous Material: Management and Control (4)**

Prereq: 200. Lectures on gases, vapors, dusts, liquids, and solids and their physical and chemical properties. Emphasis is upon evaluation and control methods. Student is required to develop controls for specific cases and present them in technical reports. 4 lec.

**Hearing, Speech and Language Sciences (HSLs)****107 Voice and Articulation (2)**

Designed to help student recognize, evaluate, and compensate for or improve speech production characteristics. 2 lec.

**108 Introduction to Communication Disorders (5) (2A)**

Introduction to the field of human communication disorders, including disorders of hearing, speech, and language. 5 lec.

**207 English Pronunciation—International Students (2)**

Prereq: successful completion of OPIE or comparable proficiency in English. (arranged) Group and individual instruction and pronunciation of sounds, rhythm, and stress patterns of English for international students and non-native speakers of English. 1 lec, 2 lab.

**208 Phonetics (5)**

(fall, spring) Speech sounds from sociological and physiological points of view. Mastery of International Phonetic Alphabet and English phonetic transcription. 4 lec, 2 lab.

**240 Professional Orientation (3)**

Prereq: HSLs major, soph. (fall, spring) Introduction to clinical practice issues in communication disorders. Includes video observation of diagnostic and treatment sessions with individuals who have a wide variety of communication disorders. 2 lec, 2 lab.

**252 Speech Science (4)**

(fall, winter) Physical properties of speech signals. Analysis of speech and speech perception. Lab exercises and experiments included. 4 lec.

**253 Hearing Science (4)**

Prereq: 252. (winter, spring) Physiological and psychological aspects of sound and measurement of human hearing, including sound transmission and analysis, electrophysiology of the ear, psychoacoustics. 4 lec.

**297T Sophomore Tutorial I (1-15)****298T Sophomore Tutorial II (1-15)****299T Sophomore Tutorial III (1-15)****300 Aging and Disorders of Communication (4)**

(fall, spring) Basic information concerning nature of minor and major communication disorders, communication aids, and alternative approaches to rehabilitation. 4 lec.

**310 Language Development (4)**

Prereq: jr. or sr. (fall, winter) Foundation in language acquisition in young children. Includes development of semantics, syntax, phonology, morphology, pragmatics, and theories regarding development. 5 lec.

**313 Anatomy and Neurology of Communication (4)**

Prereq: jr. (fall, winter) Structures, musculature, and functions involved in respiration, phonation, resonance, and articulation for speech. 4 lec.

**336 Speech and Hearing Disorders in the Public Schools (3-4)**

Prereq: not open to HSLs majors. (arranged) Nature, causes, and treatment of speech-language problems in public school children with special reference to role of classroom teacher.

**341 Pre-Professional Service I (2)**

Prereq: 240, jr, pass speech proficiency test. (fall, winter) Intermediate exploration of clinical practice issues in communication disorders. Includes service experience in a professional context. 1 lec, 2 lab.

**378 Sign Language (4)**

Prereq: not open to HSLs majors. Instruction in manual sign language system used by deaf. Emphasis on vocabulary, encoding, and decoding signs to communicate effectively. 4 lec.

**379 Basic Manual Communication (4)**

Prereq: major. (fall, winter) Basic instruction and practice in fingerspelling and signing used by deaf and hard of hearing. 4 lec.

**380 Basic Audiology (5)**

Prereq: 252, 253. (fall, winter) Provides a basic understanding of the standard clinical procedures used to assess the auditory system, including puretone audiometry, speech tests, tympanometry, and acoustic reflex testing. Emphasis on interpretation of audiometric test results. Anatomy and physiology of the auditory system reviewed as related to disorders of the ear. Exposure to instrumentation, test materials, and practical testing experience provided in weekly laboratory sessions. 4 lec, 2 lab.

**385 Sign Language I (4)**

Prereq: Open only to non-HSLs majors (no credit if credit already for HSLs 385A). Basic introduction to sign language, including finger spelling, number concepts, and encoding and decoding of sign. 4 lec.

**385A Sign Language I (4)**

Prereq: Open only to HSLs majors (no credit if credit already for HSLs 385 or 379). Basic introduction to sign language, including finger spelling, number concepts, and encoding and decoding of sign. 4 lec.

**386 Sign Language II (4)**

Prereq: 385 or 385A. Intermediate instruction and practice in manual communication with emphasis on interactive signing. Includes introduction to American Sign Language (ASL). 4 lec.

**387 Sign Language III (4)**

Advanced instruction in American Sign Language (ASL). Addresses culture of deaf populations and principles of interpreting with an emphasis on practical applications. 4 lec.

**390 Research in Hearing, Speech and Language Sciences (4)**

Prereq: PSY 221, jr. or sr. Introduction to research in the fields of speech-language pathology and audiology. Topics include the scientific method, generating relevant research questions, types of data and research designs, and formulating and communicating conclusions and interpretations. 4 lec.



**397T Junior Tutorial I (1-15)****398T Junior Tutorial II (1-15)****399T Junior Tutorial III (1-15)****410 Language Science (4)**

Prereq: 310 or LING 350 or 351. Theoretical approaches to language acquisition, neural correlates of language learning, noninvasive imagining techniques, relation of memory and cognition to language, and models of language processing. 4 lec.

**413 Communication Acoustics (3)**

Prereq: Non-HSLS major. (spring) Provides telecommunications majors and other interested students with background information in acoustics as related to human speech production and perception. 2 lec, 2 lab.

**418 Disorders of Articulation and Phonology (4)**

Prereq: 208, 313. (fall, spring) Phonetic acquisition, articulation evaluation. Emphasis on practical approaches to therapy for individuals with articulation and phonological disorders. 5 lec.

**419 Organic and Structural Communication and Related Disorders (4)**

Prereq: 313. (winter, spring) Provides a background on the nature and management of communication disorders caused by injury or malfunction of speech and language mechanism and nervous system. Illustration of case management presented for selected representative cases. 5 lec.

**420 Multicultural Aspects in Communication Sciences (4)**

Prereq: 108, 208. Multicultural topics related to the fields of speech-language pathology and audiology including speech and language acquisition in diverse cultures, social and geographical dialects, introductory concepts of bilingualism, hearing disorders, and aural rehabilitation. 4 lec.

**422 Diagnostics (3)**

Prereq: 310, sr. Types of diagnosis in evaluation of speech and language problems. Screening tests, use of statistics in testing, basic interview and history procedures. 3 lec.

**433 Professional Training Seminar (3-4)**

(arranged) Seminar in concepts underlying therapy procedures.

**442 Pre-Professional Service II (3)**

Prereq: 341, sr. (fall, spring). Advanced exploration of clinical practice issues in communication disorders. Includes service experience in a professional context. 2 lec, 2 lab.

**442A Audiology Practicum (2)**

Prereq: admission to pregraduate program. (winter, spring) Experience in audiological diagnosis and evaluation in campus clinical facility and off-campus test sites. 1 lec, 2 lab.

**442C Advanced Speech/Language Practicum (2)**

Prereq: 442, admission to pregraduate program. (winter, spring) Application of diagnosis, therapy planning, and therapy techniques. 1 lec, 2 lab.

**444 Language Disorders in Children (4)**

Prereq: 310 (fall, spring) Introduction to disorders of language that may be observed in children with mental retardation, hearing impairment, autism, learning disabilities, specific language impairments, and other disabilities. 5 lec.

**471 Aural Rehabilitation (4)**

Prereq: 390 (winter) Differential diagnosis of children with suspected auditory disorders. Basic remedial procedures employed with hearing handicapped. Practice in planning lessons in speech reading and auditory training. 5 lec.

**480 Advanced Manual Communication (4)**

Prereq: 378 or 385 or 379 (spring) Advanced instruction and practice in manual communication for students who anticipate study in clinical audiology or education of the deaf and special education.

**498 Special Problems (1-15)**

Prereq: written proposal and perm.

**498T Senior Tutorial I (1-15)****499 Independent Reading in Speech Pathology, Audiology, and Speech Sciences (1-15)****499T Senior Tutorial II (1-15)****History (HIST)****101 Western Civilization in Modern Times (4) (25)**

Prereq: fr or soph only. Renaissance to 1648: Renaissance, Reformation, origins of national state system, diplomacy, and imperialism as applied to Portugal, Spain, and Hapsburg Empire, and commercial and scientific revolutions.

**102 Western Civilization in Modern Times (4) (25)**

Prereq: fr or soph only. Continuation of 101. Covers 1648 to 1848: absolutism, constitutionalism, operation of coalition diplomacy, and imperialism as applied to France and Britain; westernization of eastern Europe, Enlightenment, French Revolution, agricultural, commercial, and industrial revolutions and growth of ideologies—liberalism, socialism, and nationalism.

**103 Western Civilization in Modern Times (4) (25)**

Prereq: fr or soph only. Continuation of 101-102. Covers 1848 to present: continued industrial revolution and spread of liberalism, socialism, and nationalism; rise and fall of German bid for power in two world wars; new ideologies of materialism, positivism, Social Darwinism, irrationalism, totalitarianism; Russian and Chinese revolutions and international communism; rise and fall of Western empires in Africa and Asia.

**121 Western Heritage: Classical Age (4) (2H)**

Account of origins of Western heritage from ancient Near East to end of Classical Age. Included are such topics as ancient religions, philosophies, literature, and visual arts with particular emphasis on Greece and Rome.

**122 Western Heritage: Medieval Legacy (4) (2H)**

Discussion of period from decline of Roman Empire to the Renaissance focusing on development of Judaeo-Christian traditions, concept of civilization, and emergent individualism. Important subtopics include growth of universities, chivalry, scholasticism, and humanism.

**123 Western Heritage: Modernity (4) (2H)**

Major intellectual currents and cultural results from time of Renaissance to present examined in humanistic perspective. Included are such topics as origins of modern philosophy, languages, revolutions, political ideologies, and cultural pluralism.

**132 Introduction to Non-Western History Before 1750: Cross-Cultural Perspectives (4) (2C)**

Introduces cross-cultural perspectives in non-Western history. Focus is on the major themes in human development, such as the history of the rise of civilization, world religions, and trading systems.

**133 Introduction to Non-Western History Since 1750: Cross-Cultural Perspectives (4) (2C)**

Introduces cross cultural perspectives in non-Western history. Focus is on the major themes in human development, such as the rise of nationalism, modernization, and Westernization, in order to understand the nature of global and cultural interaction in the modern era.

**200 Survey of United States History, 1600-1865 (4) (25)**

A survey of American history from colonial origins through the Civil War. The major political, social, cultural, and economic developments will be discussed.

**201 Survey of United States History, 1865-present (4) (25)**

A survey of American history from the Reconstruction to the present. The major political, social, cultural, and economic developments will be discussed.

**246 The Rise of Modern Asia (4)**

Introductory survey of the history of a vast region that has experienced considerable changes during the past 150 years. Ten units will compare the national experiences of China, Japan, Indonesia, Vietnam, South Korea, Taiwan, Singapore, and the Philippines through stages of transition from colonialism to independence movements, from agrarian to industrial economies, and from authoritarian dynastic states toward democratic nation-states.

**265A Nazi Germany (4)**

Rise of Hitler to 1933; Hitler takeover; totalitarianization of Germany; Nazi foreign policy; WWII: Hitler's war on Jews; Hitler's fall; meaning of fascism.

**297T Honors Tutorial Seminar, U.S. History (3-5)**

Prereq: HTC. (fall) Covers U.S. history, 1607 to present.

**298T Honors Tutorial Study, U.S. History (1-5)**

Prereq: HTC. (winter) Independent study, U.S. history.

**299T Honors Tutorial Study, U.S. History (1-5)**

Prereq: HTC. (spring) Independent study, U.S. history.

**300A Colonial America to 1689 (4)**

Prereq: soph. B. Steiner, P. Griffin. English background, establishment of settlements, first economies, evolution of political and religious structures, relations with England, internal conflicts, Glorious Revolution.

**300B Colonial America, 1689-1763 (4)**

Prereq: soph. B. Steiner, P. Griffin. Governmental changes, credit and currency, Great Awakening, cultural developments, old colonial system, Anglo-French rivalry, nature of colonial society, problems of maturing political units.

**300C Revolutionary Era, 1763-1789 (4)**

B. Steiner, P. Griffin. Causes of American Revolution and struggle for independence. Confederation, movement for new government, framing of Constitution.

**300D Early American Republic (4)**

Beginning with the ratification of the Constitution and concluding with the end of the War of 1812, this course will explore the ways in which the people of the new nation struggled to construct their political, social, and cultural institutions.

**301J Historical Research and Writing (4) (1J)**

Prereq: jr, major or perm. D. Baxter. Deals with techniques and mechanics of historical research and writing. After introduction to use of primary and secondary sources and use of history reference material, students are guided through steps of research and writing; compiling bibliography, analysis of sources, organization of evidence, and style and composition of written paper.

**302 American Indians (4)**

Prereq: soph. K. Jellison, P. Griffin. Treats Indian society before white contact; Spanish, French, and English impact; Indian removal; Indian wars; problems of cultural contact; preservation versus assimilation; Indian society today.

**303 United States in World War II (4)**

Prereq: soph. Military and diplomatic role of U.S. in WWII; political, economic, and social impact of war on that nation.

**305 The United States and the Vietnam War (4)**

Prereq: soph. Examination of American experience in Vietnam, both in terms of military and diplomatic history of war itself, and its impact on American society.

**306 American Environmental History (4)**

Prereq: soph. A survey of the evolution—from 1565 to the present—of American attitudes toward and interactions with the natural world, including such topics as romanticism, the “code of the sportsman,” conservation, the “land ethic,” and “deep ecology.”

**307 Famous Trials in American History (4)**

This course uses the medium of famous trials to explore the relationship between law and society in American history from the 17th to the 20th centuries. Some of the cases to be studied are landmarks in the history of law, while others provide social and cultural insights into a particular period of American history. Along the way, the class will consider the role of governmental entities, the legal profession, the judiciary, the press, and the public in famous trials.

**308A Pre-Civil War America, 1815–1850 (4)**

Prereq: soph. *P. Field*. New definitions of democracy, westward expansion, early industrialization and class formation, moral reform movements, slavery and sectionalism, Mexican War, conflict of Jacksonian Democrats and Whigs.

**308B The Civil War and Reconstruction (4)**

Prereq: soph. *P. Field*. Forces making for increased sectionalism in 1850s; rise of new parties; military engagements; society and institutions in North and Confederacy during wartime; attempts to restructure Southern society after war and why they failed.

**308C Foundations of Modern America: The Gilded Age, 1877–1901 (4)**

Prereq: soph. *P. Field*. Labor unrest, nativism and anti-semitism, imperialism, government corruption, Social Darwinism, urban growth, Victorian morality, and Indian wars examined as outgrowths of efforts of American people to adapt to modernization and industrialization in late 19th century.

**309A American Constitutional History, Part 1: Origins to Reconstruction (4)**

Prereq: soph. Traces the history of American constitutionalism from its English roots through the aftermath of the Civil War. While the purview of the course is not restricted to the federal constitution, that document will form its chief focus. Ideas, institutions, and individuals responsible for the construction of America's unique constitutional heritage will be studied in considerable detail.

**309B American Constitutional History, Part 2: Gilded Age to Present (4)**

Prereq: soph. Studies the history of American Constitutionalism from the last half of the 19th century to the last half of the 20th. Course will concentrate on the Federal Constitution and its role in shaping the public and private lives of Americans. Particular attention will be paid to the ideas, institutions, and individuals responsible for making the Constitution a battleground rife with intellectual, social, and cultural significance.

**309C Famous Trials in British History (4)**

Prereq: soph. Uses the medium of famous trials to explore the relationship between law and society in British history. Some of the cases to be studied are landmarks in the history of law, while others provide insight into the social, cultural, and political characteristics of a particular period in British history.

**310A 20th-Century America, 1900–1928 (4)**

Prereq: soph. *P. Milazzo*. Emphasis on political and cultural history. Major topics include early 20th-century progressivism as an intellectual movement and its manifestations in state and local politics; presidencies of Theodore Roosevelt and Woodrow Wilson; impact of World War I; ambivalent character of the 1920s in American culture and politics; origins and effects of the affluent society.

**310B 20th-Century America, 1928–1945 (4)**

Prereq: soph. *P. Milazzo*. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Great Depression; Franklin D. Roosevelt and the emergence of the

modern presidency; political and intellectual character of the New Deal; origins and impact of American involvement in World War II; wartime military history, diplomacy, and politics.

**310C 20th-Century America, 1945–Present (4)**

Prereq: soph. *P. Milazzo*. Emphasis on politics, culture, and foreign policy. Major topics include origins and nature of the Cold War; impact of foreign involvements on American politics; political leadership in the media age; radicalism and social change in the '60s and '70s; the rise of cultural politics and its effect on economic-based political coalitions; resurgence of conservatism in the '70s and '80s.

**313 Jews in American History (4)**

Prereq: soph. *M. Fletcher*. Examines political, economic, and religious interaction between Jews and American society. Includes Sephardic and Ashkenazic immigrants, growth of Reform and Conservative Judaism, Zionism, and modern problems of American Jews. From 1654 to present.

**314D American Social Thought to 1815 (4)**

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of American colonies and U.S. to 1815, organized around two major themes: Puritanism, and secularization of American thought in 18th century.

**314E American Social Thought, 1815–1915 (4)**

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of U.S. 1815–1915, stressing rise of romantic nationalism; triumph of democratic attitude; slavery controversy; impact of Civil War and Darwinian evolution.

**314F American Social Thought Since 1915 (4)**

Prereq: soph. *K. Mattson*. Major aspects of intellectual history of U.S. since 1915, with principal attention to continuing impact of evolutionary naturalism, especially in development of pragmatism; trends in liberal and conservative political ideologies; rise of pessimistic theology and its ramifications; modernism in arts; New Radicalism and Counter Culture.

**315A History of African Americans to 1865 (4) (25)**

Prereq: soph. Beginning with introduction of slavery in 1619, course deals with black person's role in America through Civil War. Concerns slavery, abolition, and many attempts by black people to improve their position.

**315C African Americans in American History, 1865–1939 (4)**

Prereq: junior. *M. Fletcher*. Concerns Emancipation and its continuing effects on African Americans; life in the post-Civil War South; new Black leaders such as Washington, DuBois, and Garvey; and the migration to the North.

**315D African Americans in American History, 1940–Present (4)**

Prereq: junior. *M. Fletcher*. Concerns World War II and its continuing effects on African Americans, migration to the North, the Civil Rights movement, and the problems of equality.

**316A History of United States Foreign Relations to 1914 (4)**

Prereq: soph. *C. Pach*. U.S. foreign relations from war for independence to WWI, stressing development of traditional policies—isolationism, neutrality, Monroe Doctrine—and emergence of U.S. as world power.

**316B History of United States Foreign Relations, 1914–1945 (4)**

Prereq: soph. *C. Pach*. American foreign relations in two world wars and interwar period, emphasizing shifting perceptions of vital interests involved in transition from intervention to nonentanglement to intervention again and emergence as superpower.

**316C History of United States Foreign Relations, 1945 to Present (4)**

Prereq: soph., *C. Pach*. American foreign relations in Cold War and after, emphasizing confrontation between U.S. and Communist world, emergence of detente, and background of current foreign policy issues.

**317A Ohio History to 1851 (4)**

Prereq: soph. *B. Steiner*. Ohio to 1851: prehistoric Ohio, early exploration, settlement, government; statehood and economic development; political parties, antislavery movement, constitutional change.

**317B Ohio History Since 1851 (4)**

Prereq: soph. Ohio since 1851: pre-Civil War politics, Civil War. Economic and political transition during post-Civil War. 20th-century problems. Biographical sketches.

**318 American Westward Movement (4)**

Prereq: soph. American West; Appalachian West, Ohio frontier, Far West. Explorers, fur traders and trappers, miners, cattlemen, stage lines and railroads, farmers. Conservation.

**319B American Baseball to 1930 (4)**

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from origins in children's games and spread as adult activity in mid-19th century to emergence as full-blown professional sport after Civil War, formation of present league structures, Black Sox scandal of 1919–20, reconstitution of baseball's governance, and Babe Ruth-dominated “golden age” of 1920s. Includes player-owner conflicts, foremost players, managers, and teams; separate development of black baseball.

**319C American Baseball Since 1930 (4)**

Prereq: soph; no credit if 319A. American baseball—as sport, entertainment, business, and cultural institution—from Great Depression of 1930 through World War II; postwar boom, slump, and franchise migrations; major league expansion in 1960s; player-owner conflicts; and good and bad times in 1980s and 90s. Includes continuing evolution of game; foremost players, managers, and teams; Negro leagues and their demise; and All-American Girls Professional Baseball League (1943–54).

**320A Women in American History Before 1877 (4)**

Prereq: soph., *K. Jellison*. American women's history from the colonial era through Reconstruction. Topics include the traditional life of Native American women, witchcraft in colonial New England, women in the American Revolution, African American women in slavery, early American childbirth customs, the early women's rights crusade, women on the trans-Mississippi frontier, and women in the Civil War.

**320B Women in American History Since 1877 (4)**

Prereq: soph. *K. Jellison*. American women's history since Reconstruction. Topics include the experiences of immigrant women in the U.S., prostitution in the Gilded Age, the Progressive Era birth-control movement, achievement of the right to vote, women in the two world wars, women in the civil rights movement, the new feminist movement, the backlash against feminism, Roe v. Wade and the abortion debate.

**320C Women's Health and Medicine in America (4)**

Prereq: soph. This course examines, from the colonial era to the present, changes in the medical treatment of women and changes in the perception of what constitutes women's health and illness. The class will explore how the complex interplay of scientific inquiry, social mores, cultural fears and expectations, and the relationship between physicians and women have contributed to changing definitions of women's health and medicine.

**321A History of the Military in America: 1600 to 1898 (4)**

Prereq: soph. *M. Fletcher*. Military institutions in American history; role of technology in warfare; innovations and reforms in military; war and its conduct; military and civilian society in war and peace.

**321B History of the Military in America: 1898 to Present (4)**

Prereq: soph. *M. Fletcher*. Continuation of 321A. See 321A for description.

**321C Military History of the Civil War (4)**

Prereq: soph. The military aspects of the US Civil War, who won and lost and why. Also the roles of individual men and women, white and black. Battles and leaders.

**322 1960s in U.S.: Decade of Controversy (4)**

Prereq: jr. Allows students to go beyond the popular stereotypes of the 1960s to understand the decade as a period of social, cultural and political confrontation that laid the groundwork for life in the present-day United States. Primary focus on social protest movements of the era: the Civil Rights movement, the student movement, the antiwar movement, the counterculture, and the women's movement.

**323A Latin American History: The Colonial Era (4) (2C)**

Prereq: soph. *M. Grow*. Examines historical origins of Latin American society. Themes include internal nature of Iberian and pre-Columbian Indian societies, circa 1492; conquest and subordination of Amerindian civilizations by Spain and Portugal; distribution of power, land, and labor in post-conquest Latin America; order and instability in colonial society; and region's position in international economy.

**323B Latin American History: The 19th Century (4) (2C)**

Prereq: soph. *M. Grow*. Examines 19th-century origins of modern Latin American underdevelopment, focusing on causes and consequences of Revolutions of Independence; dynamics of dictatorship and democracy in post-independence Latin American political culture; and decision-making process by which Latin America's 19th-century leaders integrated their national economies into international economic system as specialized exporters of raw materials.

**323C Latin American History: The 20th Century (4) (2C)**

Prereq: soph. *M. Grow*. Survey of modern Latin American history focusing on causes and consequences of structural instability in Latin America since 1900. Special emphasis is placed on collapse of region's traditional liberal/export model of national development in 1930s; competing political/ideological responses to structural crisis in region (social revolution, authoritarianism, democratic change); and ongoing search for viable formulas of economic development.

**325 History of U.S.-Latin American Relations (4)**

Prereq: soph. *M. Grow*. Survey of inter-American relations in the 19th and 20th centuries, focusing on evolving, and often conflicting, definitions of national interest which have shaped U.S. and Latin American policy orientations toward one another.

**329A Ancient Egypt and Mesopotamia (4)**

Prereq: soph. Prehistoric eras, origins of Mediterranean civilizations, problems of ancient chronology, civilizations of Sumerians, Babylonians, Egyptians, Assyrians, Biblical Hebrews, and Persians. Stresses archaeological and literary sources, comparative social and religious concepts, acculturation, contributions to Western civilization.

**329B Ancient Greece (4)**

Prereq: soph. Aegean prehistory, Mycenaean civilization, Mycenaean Greeks, Dorian invasions, Greek Renaissance, growth of polis, Athenian society and culture, Persian and Peloponnesian Wars, political history of Greece to Alexander

Stresses archaeological sources, mythology, and drama. Hellenic contributions to Western civilization.

**329C Ancient Rome (4)**

Prereq: soph. Early peoples of Italy, Etruscans, constitutional development of Republic, growth of empire, civil wars, history of principate to Constantine. Stresses archaeological sources, Latin literature, Roman life and institutions, Roman contributions to Western civilization.

**330 History Through Film (4)**

Prereq: soph. Examination of selected topics in U.S., European, or Third World history through films and readings accompanied by lectures and discussion.

**330A African History Through Film (4)**

Prereq: soph. This course explores transformations in the nature of African societies, cultures and economies in the twentieth century, particularly in the post-1960 period. It will use film as a medium for studying issues as they are understood by Africans themselves. We will see African filmmakers as social historians, historians concerned with the everyday nature of the lives of common people.

**331 The Ancient Greek Games: The Panhellenic Festivals (4)**

Prereq: soph. Examines panorama of Greek athletic activity over period of approximately 3,000 years beginning with Minoan or Cretan civilization, ca. 3000 B.C., and terminating with decline of polis, or Greek city-state, ca. 146 B.C. Explains how Panhellenic festivals helped to unite various currents of Greek civilization.

**332 History of Women in the Middle East (4)**

Prereq: jr. *S. Quinn*. Main themes, divided chronologically and thematically, include the history of veiling, polygamy, divorce, and laws of personal status during the early periods of Islam; a re-examination of "harem politics" and the role of women in the Ottoman empire; the effects of Westernization and modernization in the 19th-century societies; and recent trends such as the enforcement of the veil in the Islamic Republic of Iran and Egyptian fundamentalist movements; section on women poets and novelists.

**333 Oil and World Power (4)**

Prereq: soph. Energy crisis in historical perspective. Focus on oil industry during past century with particular attention to Middle East and North Africa; economic, environmental, geological, political, and technological elements of current situation.

**334 The Arab-Israeli Dispute (4)**

Prereq: soph. Analysis of underlying causes of Arab-Israeli confrontation from 1890s to present, including origins of Arab nationalism and Zionism, evolution of British Mandate in Palestine, Great Power involvement in Middle East, and recent developments in conflict between Israel and Arabs.

**335A Survey of Middle East History to 1800 (4) (2C)**

Prereq: soph. *S. Quinn*. Islamic history and civilization from rise of Islam to end of 18th century. Includes discussion of role of prophet Muhammad, doctrines and institutional system of Islam, medieval Islamic caliphates and their cultural achievements, and contributions of Persians and Turks to Islamic civilization.

**335B Survey of Middle East History Since 1800 (4) (2C)**

Prereq: soph. *S. Quinn*. History of Middle East since era of French Revolution. Transformation of Ottoman and Persian Empires into 20th century Middle East states, impact of nationalism, secularism and industrialism on region; and position of Middle East in contemporary world affairs.

**335C Legacy of Genghis Khan (4)**

Prereq: soph. *S. Quinn*. An examination of Genghis Khan's life and legacy, emphasizing historical problems such as the life of the Khan, Mongol military tactics, economic policies, the

interaction between nomadic and settled peoples, premodern state formation, and Mongol-influenced artistic and literary achievements. Particular attention given to Genghis Khan's legacy in the Middle East and Islamic world, including conquests of the warlord, Tamerlane, and the rise of the three "Gunpowder Empires."

**336A North Africa in Modern Times (4)**

Prereq: soph. Maghrib: its geography, ethnic composition, and history since antiquity; French conquest of Algeria, Tunisia, and Morocco; administrative systems; economic development; French-Muslim relations.

**336B North Africa Since 1914 (4)**

Prereq: soph. Rise of nationalism; struggle for political independence; political, economic, and social problems in independent North Africa; North Africa in world affairs.

**338 History of West Africa (4)**

Prereq: soph. History of West Africa from early times to present; peopling of sudanic and forest regions; development of trade; Islam and rise of sudanic empires; slave trade and forest states; colonial era; independence movements; problems of nationalism.

**338A History of East Africa (4)**

Prereq: soph. History of East Africa from early times to present, with particular emphasis on period since 1750. Although neighboring countries also studied, greatest attention paid to region that comprises present-day Kenya, Uganda, and Tanzania.

**341A Early Africa (4) (2C)**

Prereq: soph. *W. Hawthorne*. Africa in ancient world; spread of agriculture and iron working; rise of Islam; migrations of peoples; development of states; arrival of Europeans; beginning of slave trade.

**341B Africa During Atlantic Slave Trade (4) (2C)**

Prereq: soph. *W. Hawthorne*. Slave trade; religious revolutions in western Sudan; development of African states; commercial revolution of 19th century; birth of plural society in South Africa; European partition of Africa.

**341C Modern Africa 1890-Present (4) (2C)**

Prereq: soph. *W. Hawthorne*. Establishment of European rule in Africa; colonial period; rise of nationalism; decolonization and independence; problems of modern Africa.

**342A South Africa to 1899 (4)**

Prereq: soph. *W. Hawthorne*. Establishment and transformation of African societies (Bantu migrations); coming of Europeans; evolution of Cape society (black, white, colored); conflicting nationalisms; Great Trek; rise of Zulu empire and mfecane; mineral revolution and subjection of African chiefdoms; British imperialism and coming of South African War.

**342B South Africa Since 1899 (4)**

Prereq: soph. South African (Boer) War and reconstruction; formation of Union; global war and racial/regional/class conflicts over land, labor, and politics; rise of Afrikaner nationalism and triumph of apartheid; rise and radicalization of African nationalism; collision of nationalisms and expansion of conflict in 1970s; South Africa and modern world.

**343 Revolutions in Southern Africa (4)**

Prereq: 246. Historical background and developments up to present of revolutions in Mozambique, Angola, Zimbabwe (Rhodesia), Namibia (South West Africa), and Azania (South Africa). 2 lec, 1 disc, and 1 film per wk.

**344A History of the Malay World (4)**

Prereq: soph. *W. Frederick*. Comparative view of Southeast Asian archipelago, emphasizing Indonesian civilization after 1750. Penetration of West, struggle with Imperialism and modernization, and present dilemmas. Indigenous views focus of attention.

**344B History of Burma and Thailand (4)**

Prereq: soph. *W. Frederick*. Comparative study of neighboring Buddhist states, emphasizing themes of change and continuity since mid-18th century. Special attention given to divergent responses to colonialism and Western-style development, and similarities in political and social forms.

**344C History of Vietnam (4)**

Prereq: soph. *W. Frederick*. Modern Vietnamese civilization since 15th century, emphasizing political and social change after 1800. Special attention given to Vietnamese struggle with outside powers, including China, France, U.S., and Soviet Union.

**345A Southeast Asia to c. 1750: The Creative Synthesis (4) (2C)**

Prereq: soph. *W. Frederick*. Highlights of pre- and proto-history and development of classical states. Emphasis on cultural synthesis (Hindu, Buddhist, Muslim, and animist influences) and theme of change and continuity in both Great and Little traditions of region.

**345B Southeast Asia, c. 1750 to 1942: Change and Conflict (4) (2C)**

Prereq: soph. *W. Frederick*. Indigenous change and widening effects of Western penetration, with emphasis on social and cultural developments. Nature of colonialism in region, and response of colonized seen in light of both traditional and modern influences.

**345C Southeast Asia, 1942 to the Present: The Search for Stability (4) (2C)**

Prereq: soph. *W. Frederick*. Japanese occupation and its relationship to great national revolutions of 1940s. Social and cultural context of nationalism and revolt, search for new political forms, and struggle against disunity and poverty.

**346C Ancient China (4)**

Prereq: Jr. Traces the evolution of the Chinese cultural norms from pre-history through the Qin to the Song dynasty. In some 3,000 years, the writing of the philosophical classics, the creation of literary and artistic models, and the development of the imperial governmental institutions made this China's Golden Age.

**346D Imperial China (4)**

Prereq: Jr. Imperial China surveys the middle period between ancient and modern China; from the 1200s when the Mongol Empire rose to conquer the Song, through to the maturation of Chinese civilization in the Ming/Qing to the decline of the imperial state in the 19th century. Two of China's greatest pre-modern novels will express contemporary values.

**346E Modern China since 1911 (4)**

Prereq: Jr. This course spans the past century of revolutions, beginning with the overthrow of the Qing in 1911. From a disintegrated state with warlords, through the Kuomintang's National Revolution and war with Japan to the victory of the Chinese Communist Party. Then, Mao Zedong's political movements, and post-Mao economic reforms continue the efforts to make China once again strong and prosperous.

**348A Traditional Japan (4)**

Prereq: soph. Traces major elements of Japanese culture and thought from their indigenous origins, through major Chinese influence, results of medieval civil warfare, and up to premodern workings of Japan's sophisticated commercial economy.

**348B Modern Japan (4)**

Prereq: soph. Political weakness of Tokugawa system leading to opening of Japan to Western trade and restoration of emperor; favorable economic and political base which allowed Japan to enter successfully into competition with European nations; Japan's ultranationalist era and postwar reconstruction.

**350A History of Early Science (4)**

Prereq: soph. Overview of the history of science from the ancient world to the 17th century. Examine areas of knowledge and technique most modern people consider to be a part of science,

and some they do not, including medicine, astronomy, construction, mining, navigation, and warfare. Consider how politics, economy, gender, and religion affected the development of these technologies and sciences.

**351 Medieval People (4)**

Prereq: soph. In-depth inquiries into lives and epochs of representative individuals of medieval Europe: Middle Ages through biography.

**352 Medieval Civilization (4)**

Prereq: soph. Survey of cultural and intellectual history. Transmission of Christianity and classical culture to barbarians and their work of combining them into new civilization in early Middle Ages. Medieval civilization at its height: Church, schools and scholastic thought, and secular culture.

**353A The Early Middle Ages (4)**

Prereq: soph. Foundation of Medieval synthesis, 300–1100; collapse of Roman world, establishment of successor states, spread of Christianity, formation and development of European culture.

**353B The Later Middle Ages (4)**

Prereq: soph. Maturing of Medieval Europe and transition to early modern era, 1100–1450; developments in commerce, religious life and institutions, governments, politics, learning, and secular culture.

**354A Early Christianity: East and West (4)**

Prereq: soph. Investigates historical development and spread of Christianity from its origins to about A.D. 600. Content includes Greek and Hebraic backgrounds, early church fathers of East and West, ecumenical councils, early heresies, and development of church doctrine.

**354B Modern Christianity (4)**

Prereq: Jr. This course will explore the modern history of the world's largest and most geographically diverse religious tradition. While primarily considering modern Christianity's Euro-American "heartlands" this class will also examine Christianity's transition during the modern period from a religion centered on Europe, its colonies and settlements to a global religion that has helped define and resist modernity.

**356A The Italian Renaissance (4)**

Prereq: soph. *P. Bebb*. Major political, social, economic, and cultural currents of Italian city-states from 1300 to 1550. Focus on Dante, Petrarch, Boccaccio, Bruni, Machiavelli, Guicciardini, Michelangelo, Leonardo da Vinci, etc.

**356B The Northern Renaissance (4)**

Prereq: soph. *P. Bebb*. History of Renaissance outside Italy: politics, economics, sociology, and intellectual currents of Germany, France, Spain, Burgundy, and England from 1300 to 1600. Treated thematically, course focuses on Erasmus, More, Ximenes, Reuchlin, Hutten, Bude, etc.

**356C The Reformation (4)**

Prereq: soph. *P. Bebb*. Protestant, Catholic, and Counter-Reformations in Europe, showing their relationships to social, political, economic, and religious movements of 15th and 16th centuries. Roles of Luther, Zwingli, Calvin, Cranmer, Erasmus, Loyola, etc.; Protestant and Catholic churches and sects in western and eastern Europe.

**357 Florentine People (4)**

Prereq: soph. *P. Bebb*. Major figures in Florence from 1300 to 1600, from Dante to Galileo; concerns are with some originators of modern thought in areas of artistic theory, poetic form, Italian language, political ideas, scientific method, and historical composition.

**358A Early Modern Europe, 1559–1648 (4)**

Prereq: soph. *D. Baxter*. Europe from 1559 to 1648. Main political, economic, and social developments in Europe during Age of Spanish Preponderance; Philip II, wars of religion, Richelieu, Thirty Years' War, and ideological struggles.

**358B Early Modern Europe, 1648–1715 (4)**

Prereq: soph. *D. Baxter*. Europe from 1648 to 1715. Main political, economic, and social developments in Europe during Age of Louis XIV; French hegemony, rise of balance of power, absolutism.

**358C Early Modern Europe, 1715–1774 (4)**

Prereq: soph. *D. Baxter*. Europe from 1715–1774. Main political, economic, and social developments in Europe during 18th century: despotism, diplomatic revolution, competition for empire, Enlightenment.

**360A Women in Early Modern European History, 1400–1800 (4)**

Prereq: junior. The course explores the social, cultural, political, and economic roles of women in Europe for the fifteenth through the eighteenth centuries. Key issues will include women's political power and participation in politics; sexuality and the body; women's spiritual and religious roles; and women's interactions with men.

**360B Women in Modern European History, 1800–present (4)**

Prereq: junior. The course explores the role of women in western European society from the French Revolution to the present. Key themes will include how women have affected and been influenced by social, cultural, and political currents; the place of women in historical literature; and how women's roles have changed over time at the political as well as the everyday levels.

**360C Women Warriors: Women and War in Europe (4)**

Prereq: soph. This course analyzes the role of women in military capacities in Western Europe from a social-cultural perspective.

**361 The French Revolution (4)**

Prereq: soph. *D. Baxter*. The French Revolution traditionally has been seen as the dividing line separating the Old Regime from modern times. This course examines the origins, course of events, and significance of the French revolutionary experience.

**362A Europe, 1814–1871 (4)**

Prereq: soph. Europe from Congress of Vienna through Franco-Prussian War, including growth of liberalism and nationalism, revolutions of 1830 and 1848, Industrial Revolution, unification of Italy and Germany, social and intellectual movements.

**362B Europe, 1871–1914 (4)**

Prereq: soph. Development of Austria-Hungary, France, Italy, Germany, Great Britain, and Russia, including imperialism, background of WWI, and social and intellectual movements.

**364A Europe Between World Wars (4)**

Prereq: soph. Fascism, Communism, World Depression, and Twenty-Year Armistice between 1919 and 1939. Economic and cultural approach.

**364B Contemporary Europe (4)**

Prereq: soph. Cold War, Communist bloc, European integration, decolonization, Gaullist regime, and problems of present-day Europe.

**366A Modern France in the 19th Century (4)**

Prereq: soph. Rise and fall of Napoleon; his impact on France and Europe; monarchist interlude; revolution of 1848 and election of Louis Napoleon; Second Empire, liberal and authoritarian; wars and transformation of Europe; fall of Napoleon and Paris Commune; Third Republic.

**366B Modern France in the 20th Century (4)**

Prereq: soph. Dynamic and stagnant aspects; nostalgia and rejection of 20th century; impact of 20th century; democracy in France; European and colonial wars; communist movement from Popular Front to Common Program; anti-communism in France; French in changing world; De Gaulle, his predecessors, and his successors.

**368A Modern Germany in the 19th Century (4)**

Prereq: soph. Cosmopolitanism and movement to create national German state; rise of capitalism and decline of handicraft; liberation of German peasantry; revolution of 1848 and reaction; blood-and-iron chancellor; Germany's rise to European predominance; rise of worker movement; German society at turn of century.

**368B Modern Germany in the 20th Century (4)**

Prereq: soph. *N. Goda*. Germany on eve of WWI; military fiasco and creation of Weimar Republic; Weimar, Berlin, Munich, and Dresden; attempt to forge democracy; Third Reich and transformation of German society; WWII and Final Solution; Communist Germany and Federal Germany; two societies and two states since 1945.

**370 History of Byzantine Empire, 324–1453 (4)**

Prereq: soph. Decay of Roman World and emergence of Christian empire, 324–717; Medieval Roman Empire, 717–1056; weakening of central administration and apparent revival under Comneni, 1025–1204; Byzantium and neighboring world, 1204–1453; church and state; education and learning; Byzantine art; social, political, and military developments.

**371 Witchcraft 1400–1750 (4)**

Prereq: jr; 101, 122, or 123. Witchcraft in Europe, the British Isles, and the American colonies 1400–1750: its historical origins; its social-intellectual bases; the roles of gender, the law, church and state, and popular and elite cultures; the great witch hunts and trials; and witchcraft's decline and disappearance.

**372A Balkans in Early Modern Period, 1453–1804 (4)**

Prereq: soph. Ethnographic structure of Balkan peoples under rule of Ottoman Empire. Ottoman institutions and society; political, social, economic, religious, and cultural developments in Balkans in 15th, 16th, 17th, and 18th centuries.

**372B Balkans in 19th Century, 1804–1878 (4)**

Prereq: soph. Evolution of modern Balkan nationalism and rise of Balkan states. Ottoman dissolution and Balkan revolutionary nationalism: political, social, economic, religious, and intellectual developments; domestic Balkan policy and foreign intervention.

**372C Balkans in 20th Century, 1878 to Present (4)**

Prereq: soph. *D. Curp*. Historical, cultural, and ethnic background of Balkan peoples. Social, economic, political, and intellectual developments in Balkans and East Europe; communication of southeast European states

**374A Balance of Power: Napoleon to the Kaiser (4)**

Prereq: soph. *N. Goda*. Diplomatic history from Congress of Vienna to WWI, including age of Metternich, Italian and German unification, new imperialism, and prewar alliances and alignments.

**374B Origins of World War II, 1914–1941 (4)**

Prereq: soph. *N. Goda*. International problems of peace and war, international organization and alliances. Theme: origins of WWII.

**374C The Cold War, 1941–1989 (4)**

Prereq: soph. *N. Goda*. International problems of peace and war on worldwide scale since 1939, international organization and alliances. Theme: global balance of power

**375 World War I (4)**

Prereq: soph. Covers the origins of the war, both diplomatic and strategic, as well as the peacemaking afterward, but the central focus will be the war itself: the major offensives, Allied and German strategies and tactics, trench warfare of the Western Front, chemical warfare, the war in the air and on the seas, the home front, the use of the machine gun and the tank.

**376 Biography: Leaders in 19th Century Europe (4)**

Prereq: soph. Lives of great and near great as they influenced history.

**378 Espionage and History (4)**

Historical perspective on modern secret intelligence operations, including espionage, propaganda, disinformation, cryptography, and counterintelligence. Examination of role of secret intelligence in foreign policy and national public policy, especially in times of war and crisis. Attention paid to intelligence and national security requirements of societies valuing openness and human freedom. Course stresses specific historical examples.

**379 History of Sea Power (4)**

Students examine the role of navies and maritime strategy in war, diplomacy, and the world economy from ancient times to the present. The focus is on the development of the British and American sea power: doctrine and operations; the impact of politics, culture, geography, finance, and technology; and the future of sea power.

**380 Geopolitics and History (4)**

The focus is on the development and influence of global strategic views in the context of European imperialism, the two world wars, and the Cold War; major thinkers such as Mackinder, Mahon, and Haushofer; the impact of air power, space, and information warfare; the outlook of emerging powers, including China and India; geopolitics in the interpretation of international history.

**381 History of the Family (4)**

Prereq: soph. *D. Baxter*. Chronological examination of the history of the Western family from medieval to modern times in Europe and America. Focuses on changes in family life through time. Particular attention devoted to role of women in their relationship to men and children, for until the 20th century the characteristic area of women's activity was the family.

**382A History of Russia (4)**

Prereq: soph. *S. Miner*. Russian origins, Greek and Mongol influences, expansion of Muscovy, Ivan the Terrible, Peter the Great, Catherine the Great, Russia as great power, and shapes of its 19th-century society.

**382B Russia: Road to Revolution 1825–1917 (4)**

Prereq: soph. *S. Miner*. From tsarist Russia to communist revolution. Background for revolution: origins of Russian socialism, rapid social and economic change, 1905 Revolution, war and the collapse of the Romanov dynasty in 1917.

**382C Soviet Union (4)**

Prereq: soph. *S. Miner*. Soviet Union since the 1917 Revolution. Stalinism, WWII and expansion, Krushchev, Brezhnev. Emphasis on internal affairs.

**382D The USSR in World War II (4)**

*S. Miner*. History of the Soviet Union during WWII. Topics include wartime diplomacy, espionage, social and political history of the USSR during the war, the creation of the communist states in Eastern Europe after the war, and the origins of the cold war.

**389 Later Medieval England, 1307–1485 (4)**

Prereq: soph. Age of Chaucer and Wars of the Roses. Investigation of political, social, intellectual, ecclesiastical, and economic aspects of period of ferment and rapid change

**390A Tudor England (4)**

Prereq: soph. England in 16th century. Tudor absolutism, English Reformation, and major cultural and economic developments of Shakespeare's England

**390B Stuart England (4)**

Prereq: soph. England in 17th century. constitutional crisis of Stuart period, republican experiment under Cromwell, and major cultural and economic developments

**391A English History to 1688 (4)**

Prereq: soph. For English, political science, and prelaw majors and general students of history. Survey of institutional aspects of medieval England and social, political, and constitutional developments in Tudor and Stuart periods.

**391B English History Since 1688 (4)**

Prereq: soph. *J. Brobst*. For English, political science, and prelaw majors and general students of history. Emphasizes cultural and economic developments, growth of British Empire, constitutional and social reforms, and impact of WWI and WWII.

**392A Georgian England (4)**

Prereq: soph. Survey of political, social, intellectual, cultural, and economic developments of England in years prior to and during American and French revolutions.

**392B Victorian England (4)**

Prereq: soph. Survey of England's history in 19th century, including examination of major political, cultural, and economic trends.

**392C 20th Century Britain (4)**

Prereq: soph. Students study Britain in the 20th century, focusing on the decline from world power: the onset of trouble before 1914; the experience of two world wars; society and policy between the wars, especially appeasement and its background; postwar developments, including the welfare state, de-colonization, and European integration.

**392D British Empire (4)**

Prereq: soph. The rise and fall of the British Empire: constitutional, strategic, and economic problems since 1783; ideologies of empire; the importance of the "Old Dominions" (Canada, Australia, New Zealand, and South Africa); the special position of India within the larger system; de-colonization and its impact.

**392E British India and Great Game (4)**

Prereq: soph. Students study the making of modern India, Pakistan, and Afghanistan, focusing on South Asia's importance in relation to world power: imperialism and nationalism, economic development, and the background to international security problems, including Kashmir, terrorism, and nuclear proliferation.

**394A The Medieval English Constitution (4)**

Prereq: soph. English government from Anglo-Saxon times to end of Middle Ages. Growth of machinery of monarchy, central administration, courts and common law. Rise of Parliament.

**394B The Modern English Constitution (4)**

Prereq: soph. Emergence of modern English constitution during 16th and 17th centuries; creation and growth of Tudor Constitution; significance of English Reformation for constitution; Tudor Parliament; "Century of Revolution" (1603–1689) and crisis of Constitution; problems of sovereignty and obligation; constitution today.

**395 History of Canada (4)**

Prereq: soph. Introduction to Canada; study of its exploration and development under France and England, and its emergence as important modern nation.

**396A European Intellectual and Cultural, 18th–20th Century (4) (1J)**

Prereq: jr. Intellectual and cultural trends from the Enlightenment to the beginning of the 20th century. Themes include economic liberalism, philosophical liberalism, revolution, romanticism, nationalism, philosophy of history, Marxism, Nietzsche, racism, anti-Semitism, Social Darwinism, interpretive sociology, and comparative history.

**396B European Intellectual and Cultural, 20th Century (4) (1J)**

Prereq: jr. Intellectual and cultural currents in 20th century Europe. Themes include radicalization of intellectual life, Freud and psychoanalysis, fascism, Nazism, Communism, capitalism, feminism, postwar conservatism, post modernism, collapse of European communism, and the decline of liberalism.



**396J Writing on Historical Themes (4) (1J)**  
Prereq: jr. Students study and write on selected historical themes. Equal emphasis on historical materials and writing. Fulfills jr-level English composition requirement.

**397T Honors Tutorial Study, European History (1-5)**  
Prereq: HTC. (fall) Covers European history from Renaissance to present.

**398T Honors Tutorial Study, European History (1-5)**  
Prereq: HTC. (winter) Independent study. European history.

**399T Honors Tutorial Study, European History (1-5)**  
Prereq: HTC. (spring) Independent study. European history.

**401A Studies in Colonial American History (4)**  
Prereq: 24 hrs HIST. Literature and source materials of colonial American history. Readings and reports.

**401B Studies of the Era of the American Revolution (4)**  
Prereq: 24 hrs HIST. *P. Griffin*. Literature and source materials of American Revolution. Readings and reports.

**405 Studies in the Foundation of the American Republic, 1783-1819 (4)**  
Prereq: 24 hrs HIST. literature and source materials of early national period of American history. Readings and reports.

**407 Studies of the Era of Sectional Controversy: 1819-1850 (4)**  
Prereq: 24 hrs HIST. Literature and source materials of era of sectional controversy, 1819-1850. Readings and reports.

**409 Studies in the Era of the Foundations of Modern America, 1850-1901 (4)**  
Prereq: 24 hrs HIST. Literature and source materials for period 1850-1901 in U.S. history. Readings and reports.

**411 Studies in the History of the United States in Recent Times (4)**  
Prereq: 24 hrs HIST. Literature and source materials of recent U.S. history. Readings and reports.

**415 Studies in the Social, Cultural, and Intellectual History of the United States (4)**  
Prereq: 24 hrs HIST. Selected topics.

**417 Studies in the History of American Foreign Relations (4)**  
Prereq: 24 hrs HIST. *C. Pach*. Literature and source materials of American foreign relations. Readings and reports.

**421 Studies in Regional History (4)**  
Prereq: 24 hrs HIST. Literature and source materials of U.S. regional history. Readings and reports.

**424 Studies in the History of U.S.-Latin American Relations (4)**  
Prereq: 325. *M. Grow*. Readings and research papers on major issues in 20th-century U.S.-Latin American relations.

**426 Dictatorship in Latin American History (4)**  
Prereq: 323C. *M. Grow*. Focuses on predominant type of political/governmental system in Latin America: authoritarian dictatorship. Examines major examples of 20th-century ideological authoritarianism in Latin America ranging from populist authoritarianism of Juan Peron in Argentina to bureaucratic authoritarian regimes recently in power in Southern Cone and Brazil. Attention devoted to competing schools of interpretation which attempt to explain recurring phenomenon of nondemocratic forms of government in Latin America.

**427 Studies in Recent Latin American History (4)**  
*M. Grow*. Literature and source materials of recent Latin American history. Readings and reports.

**429 Studies in the History of Ancient Greece (4, max 8)**  
Prereq: 24 hrs HIST. Literature and source material of ancient Greek civilization. Readings and research paper. Themes vary from quarter to quarter. May be repeated for credit.

**435 Studies in Middle East History (4)**  
Prereq: 24 hrs HIST. Selected topics on Middle East since 1914. Readings and reports.

**441 Studies in African History (4)**  
Prereq: 16 hrs HIST or INST. *W. Hawthorne*. Literature and source materials of African history. Readings and reports.

**445 Studies in the History of Southeast Asia (4)**  
Prereq: 24 hrs HIST. *W. Frederick*. Literature of Southeast Asian history and culture generally, with particular emphasis on selected developments in 19th and 20th centuries. Readings and reports.

**449 Studies in the History of East Asia in Modern Times (4)**  
Prereq: 24 hrs HIST. Historical literature relating to process of modernization of China and Japan from 1860s to 1960s. Readings and reports.

**453 D-Z Studies in Medieval History (4)**  
Prereq: junior. Selected topics in medieval history. Readings in original sources and scholarship. Reports and final essay.

**463 Studies in 19th-Century Europe (4)**  
Prereq: 24 hrs HIST. Literature and source material of 19th-century Europe. Readings and reports.

**467 Studies in Modern France (4)**  
Prereq: 24 hrs HIST. Literature and source material of modern France. Readings and reports.

**483 Studies in Russian and Soviet History (4)**  
Prereq: 24 hrs HIST. *S. Miner*. Literature and source material of Russian and Soviet history. Readings and reports.

**491 Studies in Early Modern English History (4)**  
Prereq: 24 hrs HIST. Studies in early modern English history from multidisciplinary perspectives.

**493 Studies in British History Since 1714 (4)**  
Prereq: 24 hrs HIST. *J. Brobst*. Literature and source material of British history since 1714. Readings and reports.

**495 History Internship (5)**  
Prereq: jr, perm. Designed to enhance skills for history majors through history-related work assignments in public and private agencies.

**496 Quantitative Methods in History (4)**  
*P. Field*. Introduction to descriptive and inductive statistical techniques used in historical research and analysis of current literature employing such techniques. Instruction in use of computer.

**497T Advanced Honors Tutorial Study (1-5)**  
Prereq: HTC. (fall) Independent study, advanced level.

**498 Problems in History (1-5, max 9)**  
Prereq: 24 hrs HIST. Intensive individual work either in research or individual systematic reading along lines of student's special interest under supervision of staff member.

**498T Advanced Honors Tutorial Study (1-5)**  
Prereq: HTC. (winter) Independent study, advanced level.

**499 Honors Studies of Selected Historical Topics (1-5, max 15)**  
Prereq: perm. Study, reading, research, and writing on selected topic; intended for students

who plan to graduate with honors in history. Arrangements should be made during junior year.

**499T Advanced Honors Tutorial Study (1-5)**  
Prereq: HTC. (spring) Independent study, advanced level.

## Human and Consumer Sciences

### Child and Family Studies (HCCF)

**160 Introduction to Child Development (4) (25)**

Fundamental patterns of development and behavior during prenatal period through early childhood. 4 lec. No credit awarded if EDEL 200 or PSY 273 has been taken.

**160A Observing and Recording Children's Behavior (3)**  
Prereq: 160 or concurrent. Documenting children's cognitive and academic learning and their social, emotional, and physical development by using a variety of observational strategies such as running records, anecdotal records, checklists, rating scales, time sampling, event sampling, and formal observational instruments. 3 lec.

**170 Introduction to Early Childhood Education (3)**  
Overview of the profession of early childhood education and the role of the teacher. 3 lec.

**260 Diversity in Early Childhood Education (3)**  
Prereq: C or better in 170. Focuses on increasing awareness, sensitivity, and understanding of the diverse cultural, ethnic, linguistic, religious, and family backgrounds of children in early childhood education. 3 lec.

**260L Clinical: Diversity in Early Childhood Education (1)**  
Prereq: C or better in 170, concurrent with 260. Clinical experience in an early childhood setting that provides an opportunity to interact with children who share diverse (cultural, linguistic, ethnic, racial, socioeconomic, family forms, etc.) background experiences. 3 lab.

**265 Infant and Toddler Development (3)**  
Prereq: 170. Provides in-depth information about the physical, social, emotional, cognitive and language development of children from birth to 3 years. Typical and atypical patterns will be covered as well as the environmental conditions that support optimal development. 3 lec.

**270 Family Living (3)**  
(fall) Person-centered analysis of basic human relationship processes leading to successful modern American marriage, partnerships, and family experience. Special discussion and analysis of problems in each family stage, and of special issues in family life today. 3 lec.

**299 Introduction to Human Services-Professional Assessment (3)**  
Prereq: soph, major. (fall) Introduction to field of child and family services/education/human services for students who have declared majors in child development, family studies, or family and consumer sciences education. Seminar sessions and performance assessment provide opportunity to assess professional competence at this level. 3 lec.

**360 Human Sexualities (4)**  
Prereq: jr or sr. Explores effect of human sexuality on aspects of one's ability to form relationships which are integrative, creative, and recreative. Emphasis on realization on dynamic potential in wholeness of life pattern and in relationships, in light of scientific research. 4 lec.

**361 Guidance and Classroom Management in Early Childhood (3)**  
Prereq: C or better 160 or PSY 273; 361L concurrent. Application of theories and principles of preschool guidance by directed observation of adult-child interactions and supervised participation in early childhood education programs. 3 lec.

**361L Clinical: Guidance and Classroom Management in Early Childhood (1)**

Prereq: C or better in 160 or PSY 273. Observation and participation in the guidance and classroom management in approved early childhood settings. 3 lab.

**363 Creative Experiences in Early Childhood (4)**

Prereq: C or better 361; CR or C or better 361L; 361L concurrent. Selection, preparation, presentation, and evaluation of activities and materials in art, music, language, psychosocial, and physical development for early childhood programs. 4 lec.

**363L Clinical: Creative Experiences in Early Childhood (1)**

Prereq: C or better in 361; CR or C or better 361; CR or C or better 361L. Observation and presentation of creative experiences in approved early childhood settings. 3 lab.

**364 Premath and Science with Young Children (4)**

Prereq: C or better 361; 1 course BIOL or BIOS. (winter) Examples of early childhood programs, primary elements and issues that differentiate them. Selection, preparation, presentation, and evaluation of premath and science activities and materials. 3 lec, 3 lab.

**365 Infant and Toddler Education (3)**

Prereq: C or better 361, 361L. (fall, alt yrs) Knowledge of ways in which children learn from birth to 3 years; opportunity to structure environment to foster social, emotional, cognitive, and physical development of infant, as well as understanding of issues and trends in infant education. 3 lec.

**365L Clinical: Infant and Toddler Education (3)**

Prereq: C or better in 361; 365 concurrent. Assigned responsibility for care and education of infants and toddlers in groups. 9 lab.

**366 Practicum in Early Childhood Education (6)**

Prereq: 363, 364, perm. Lab experience in assisting the planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs. Required for students in the associate's degree program.

**371 Family and Life Span Development (3)**

Prereq: jr. Synthesis of essential concepts useful in comprehending families in light of developmental concept for family analysis through stages of individual and family life cycle. Course offers a survey study of the life span set in the context of the family. 3 lec.

**380 Death and Dying (4)**

Prereq: jr. (spring) Examines why people fear death, how death affects family relationships, dynamics of guilt and bereavement, meanings of death, processes of dying, disposition of body, caring relationships. Synthesizes multiple dimensions of death and dying. 4 lec.

**399 Junior Practicum—Professional Development (5)**

Prereq: C or better 299, jr. major. (spring) Provides students with practical field-based experience in professional areas. 3 lec, 6 lab

**400 Senior Seminar (3)**

Prereq: 299, 399 or concurrent, perm. Provides opportunity for comprehensive assessment in relation to personal and professional growth prior to exiting programs as professionals in child development or family studies. 3 lec.

**441 Evaluation in Child and Family Studies (3)**

Prereq: sr. (arranged) Evaluation and assessment methods and techniques in relation to process and products in home economics programs and professions. 3 lec.

**444 Adult Education in Human and Consumer Sciences (4)**

Prereq: jr or sr. (winter, alt even yrs) Organization procedures, curriculum materials, and methods of conducting adult education groups in home economics. 4 lec.

**452 Home Management for the Disabled Homemaker (4)**

Prereq: jr or sr. (arranged) Recognizes unique home management demands faced by persons with disabilities and their families and determines creative methods and identifies resources to meet those demands. 4 lec.

**453 Functional Assessment in Independent Living (3)**

Prereq: jr. (arranged) Explores functional assets and limitations of persons with disabilities in completing household tasks, identifies methods and materials used in assessment of functional limitation, and determines resources and strategies to increase ability of clients to perform household tasks. 3 lec.

**455 Curriculum and Teaching Strategies in Early Childhood (4)**

Prereq: All methods courses. Synthesis of early childhood curriculum content, teaching strategies, and decision-making processes in curriculum development and implementation. 4 lec.

**455L Clinical: Curriculum and Teaching Strategies in Early Childhood (2)**

Prereq: All methods courses. Supervised lesson planning and teaching in early childhood classrooms serving children age 3 to grade 3. 6 lab.

**462A Diversity in Families (4)**

Prereq: C or better 371. (fall) Analysis of emerging pluralistic marriage and family life patterns in American society. 4 lec.

**462B Parenthood (4)**

Prereq: C or better 371. (fall) Analysis of dynamics of parenthood. 4 lec.

**462C Middle Childhood (4)**

Prereq: C or better 371. (winter) Analysis of developmental tasks of middle childhood years as they reflect and influence family guidance and transmission of values. 4 lec.

**462E Youth Identity Crisis (4)**

Prereq: C or better 371. (spring) Analysis of identity crisis in terms of its psychosocial aspects of adolescence. 4 lec.

**462F Family Ties and Aging (4)**

Prereq: C or better 371. (spring) Synthesis of multiple dimensions of aged family. 4 lec.

**463 Administration in Early Childhood (3)**

Prereq: C or better 363. (spring) History, philosophy, and objectives of preschool education including current trends. Problems in organizing and administering preschools, play groups, and Head Start programs with emphasis on housing, staff, schedules, and financing. 3 lec.

**465 Parent Education (3)**

Prereq: C or better 361, 371. (fall) Philosophy, techniques, materials, and methods used in working with parents. Opportunities for observation and participation with parent groups, parent conferences, and home visitations. 3 lec.

**467 Philosophy and Theories of Child Development (3)**

Prereq: C or better 170, sr. (fall, alt yrs) Review of theories of child development with synthesis approach for students in early childhood education programs. 3 lec.

**471 Family Life Education (4)**

Prereq: C or better 371, jr. (winter) History, philosophy, and objectives of family life education, including current trends. Selected fundamental education problems explored. Examination of various dimensions of teacher's role and critical appraisal of student's professional competency to teach classes in family life education. 4 lec.

**472 Special Studies in Child and Family Studies (2-5)**

Prereq: perm. In-depth independent study in selected area.

**474 Student Teaching in Early Childhood (6-12)**

Prereq: perm. Lab experience in planning, guiding, supervising, and evaluating preschool children's growth and behavior in all phases of early childhood education programs.

**499 Field Experience in Family Studies (12)**

Prereq: 399, 400, perm. On-the-job training through cooperation with social, welfare, or community agencies, hospitals, early childhood programs.

**Food, Nutrition and Hospitality (HCFN)****105 Introduction to Food Operations Management (1)**

Prereq: perm, acceptance as food service student manager trainee. Overview of basic management concepts as they relate to the successful operation of a food service. 1 lec.

**110 Introduction to Hospitality (4)**

Prereq: fr or soph only. (fall, winter) Overview of restaurants, institutional food service, hotels, and travel and tourism. Exploration of different career possibilities in the hospitality industry. 4 lec.

**120 Meal Management (3)**

Prereq: human & consumer science major (fall, spring) Principles of food preparation and nutrition emphasizing use of time, energy, and resources in management of meals. Government regulations controlling food supply. Special fee. 2 lec, 3 lab.

**128 Introduction to Nutrition (4) (2A)**

Nutrients, their food sources and functions in body, application to planning adequate diet through life cycle. 4 lec.

**222 Food Science and Principles (4)**

Prereq: C or better in 120; CHEM 121 or 151. (winter) Scientific principles applied to selection, storage, and preparation of foods. Special fee. 3 lec, 3 lab.

**232 Infant and Child Nutrition (4)**

Prereq: 128, HCCF 160 or PSY 273 or EDEL 200. (arranged) Dietary factors related to nutritional status in pregnancy, infancy, preschool, and school-age children. Contribution of nutrition education and school lunch program in school curriculum. 3 lec, 2 lab.

**260A Lifespan Nutrition: Maternal to Adolescence (2)**

Prereq: C or better in 128. Examination of nutritional needs and unique concerns to foster optimal growth and development during maternity (pregnancy and lactation), infancy, childhood, and adolescence. Principles of sound nutrition, as elucidated through current research, used to plan and implement recommendations for dietary change during these four stages of the life cycle. 2 lec.

**260B Lifespan Nutrition: The Adult and Geriatric Years (1)**

Prereq: C or better in 128. Examination of nutritional needs and unique concerns to foster achievement and maintenance of optimal health during the adult and older years. Principles of sound nutrition, as elucidated through current research, used to plan and implement recommendations for dietary change during these two stages of the life cycle. 1 lec.

**299 Sophomore Practicum—Professional Awareness (1)**

Prereq: C or better 120, 128, COMS 101 or 103. (fall) Development of an awareness of the history, philosophy, goals, organization, and requirements of the dietetic profession. 1 lec.

**299B Sophomore Practicum: Introduction to Food Service (4)**

Prereq: C or better 120. Food science principles applied to quantity food production. Develop an understanding of food safety and sanitation, standardized recipes, and food service equipment. 8 lab.

**330 Food Sanitation and Safety (2)**

(winter) Applied food service sanitation procedures in the food handling functions of purchasing, storage, preparation, and service. Hazard Analysis Critical Control Points (HACCP) covered. Upon completion, students eligible for national and Ohio certification in Food Safety. 2 lec.

**333 Principles of Quantity Food Production (2)**

Prereq: C or better 128, 222. (fall) Food preparation principles applied to large quantity food production, menu planning, recipe standardization, food cost, and service in institutions. Experience in residence dining halls. 2 lec.

**334A Introduction to Food Production: Dietetics (2)**

Prereq: C or better 330; 333 or concurrent. Application of principles of quantity food production. Experience in School of Human and Consumer Sciences commercial kitchen and café. Apply food safety and sanitation principles by participating in HACCP plan. Use standardized recipes and foodservice equipment in production of foods for service in Atrium Café. 6 lab.

**334B Introduction to Food Production: Food Service (3)**

Prereq: C or better 330; 333 or concurrent. Application of principles of quantity food production. Experience in School of Human and Consumer Sciences commercial kitchen and café. Apply food safety and sanitation principles by participating in HACCP plan. Use standardized recipes and foodservice equipment in production of foods for service in Atrium Café. 8 lab.

**335 Food Service Purchasing (4)**

Prereq: C or better 333. (winter) Managerial approach to the purchasing and selection of a wide variety of food, beverage, and nonfood items. Emphasis placed on purchasing the optimal amount at the optimal price. Upon completion, students eligible for national certification in Food Purchasing. 4 lec.

**340 Hospitality and Nutrition Study Tour (2-4)**

Prereq: Max 5 hrs. Exposure to the latest trends, foods, and equipment in the hospitality industry.

**360 Catering Practicum (1-3)**

Prereq: Perm. Catering for special events that provide students the opportunity to apply technical, conceptual, and interpersonal skills. Emphasis on group dynamics and management team functions. 3-9 lab.

**382 Intermediate Nutrition (4)**

Prereq: C or better 128, CHEM 123 or 153. (spring) Examination of the macronutrients from a scientific standpoint, including their metabolism, utilization at the cellular level, and recommended intake for the prevention of chronic disease and health maintenance. 4 lec.

**399A Dietetics/Nutrition with Science Field Experience (5)**

Prereq: C or better 299, 424, 499A, BIOS 345. (summer) Professional experience in hospitals, nursing care centers, community agencies providing nutrition care, government agencies charged with nutrition policy, or other direct nutrition providers under daily supervision of a Registered Dietitian (RD).

**399B Food Service Field Experience (5)**

Prereq: C or better 334. (summer) Professional experience in restaurants, hotels, or other hospitality establishments under the supervision of an experienced professional.

**400A Dietetics Senior Seminar (1)**

Prereq: 399A. Provides an opportunity for majors in dietetics and nutrition with science to demonstrate personal and professional growth by investigating a topic and presenting it in class. Students lead discussions on topics that affect the profession and share experiences gained during field experience. 1 lec.

**400B Food Service Seminar (1)**

Prereq: 399B. Provides an opportunity for food service management students to demonstrate personal and professional growth by sharing work experiences in verbal and written form with staff and fellow students. 1 lec.

**422 Experimental Foods (4)**

Prereq: C or better in 222; CHEM 302. (spring) Factors which affect results of different methods used in food preparation. Research techniques using subjective and objective evaluation of products. Special fee. 3 lec, 3 lab.

**424 Nutrition Treatment in Outpatient Care (4)**

Prereq: C or better 382; BIOS 345 or concurrent. Medical nutrition therapy associated with the prevention and treatment of disease, including overweight/obesity, hypertension, hyperlipidemia, diabetes, mellitus, and kidney disease. 4 lec.

**426 World View of Nutrition (3)**

Prereq: C or better 128; SOC 101 or ANTH 101; jr or sr. (winter) Survey of world food situation with consideration of environmental, cultural, governmental, and economic factors that relate to food production and consumption. Evaluation of these patterns in meeting dietary needs. 3 lec.

**427 Studies in Foods and Nutrition (2-4, max 8)**

Prereq: 128, 222, jr. (arranged) Directed studies in some aspect of foods and/or nutrition; topics selected by students with approval of faculty member; frequent conferences.

**428 Advanced Nutrition (4)**

Prereq: C or better 382, BIOS 345, CHEM 302 (fall). Examination of the micronutrients from a scientific standpoint, including their metabolism, utilization at the cellular level, and recommended intake for the prevention of chronic disease and health maintenance. 4 lec.

**429 Community Nutrition (3)**

Prereq: C or better 128, 382, jr. (spring) Assessment of community nutrition needs. Survey of agencies and programs providing services. Role of nutritionist. Methods and resources for nutrition education. Legislation. 3 lec.

**430 Therapeutic Nutrition (4)**

Prereq: C or better 424, 428, BIOS 345. (winter) Medical nutrition therapy associated with the prevention and treatment of disease, including gastrointestinal, pulmonary, and wasting diseases. Enteral and parenteral nutrition. 4 lec.

**431 Studies of Science of Nutrition (1)**

Prereq: C or better 428; BIOS 345 or 342 and 343; BIOS 463. (arranged) Nutrition as related to physiological and metabolic processes. Individual research project. 2 lab.

**432 Research Design and Methods in Nutrition (3)**

Concurrent with 430; PSY 121 or 221. Overview of research design and methodology with practice application to the fields of nutrition and dietetics. A group research project will be carried out. 2 lec., 3 lab.

**437 Food Service Systems I (5)**

Prereq: C or better 334; CS 120 or HS 309. (winter) Introduction to tools and functions of management in food service with emphasis on organization structure, catering, inventory control, staffing, work methods, human relations skills, sanitation, and safety. 4 lec, 3 lab.

**438 Food Service Systems II (4)**

Prereq: C or better 437; ACCT 201. (spring) Institutional equipment purchasing, kitchen layout design, facilities management, and cost control. 4 lec.

**439 International Cuisine (4)**

Prereq: C or better 334, 437. (spring) Principles of international cuisine, advanced food preparation, and research of areas of specific interest. Special fee. 2 lec, 4 lab.

**440 Beverage Management (4)**

Prereq: C or better 437. (spring) Managerial approach to beverage management in hotels, restaurants, and catering operations. Emphasis on facility planning, merchandising, and managing a beverage operation. Upon completion, students eligible for national certification in Beverage Management. 4 lec.

**498B Food Service Professional Development (2)**

Prereq: C or better 399B, major. (fall) Professional experience for food service majors with opportunities for career assessment. Practice in interviewing and job-seeking skills. 2 lec.

**499A Nutrition Counseling (2)**

Prereq: C or better in 382. Introduction to the theory of medical nutrition therapy; communicating health and nutrition advice to consumers; and behavior change models used in MNT. 2 lec.

**499B Food Service Practicum (3)**

Prereq: 498B or concurrent. (arranged) Food service experience at a food service establishment under the supervision of an experienced professional.

**499C Nutrition Counseling Practicum (1)**

Prereq: C or better in 499A or concurrent. Offers the opportunity for students to counsel client(s) in a one-on-one and group format under the supervision of a registered dietitian; including assessment, treatment, evaluation and follow-up in out-patient care. 3 lab.

**General Education (HCGE)****110 Education in Family and Consumer Sciences (2)**

Prereq: Fr or soph only. Opportunity to gain awareness of varied career choices as a family and consumer sciences education major and introduce students to workforce education for middle, high school and adult education. Emphasis on curriculum discussion, new trends in career/technical education and various resources. 2 lec.

**340 Teaching of Family and Consumer Sciences (4)**

Prereq: HCCF 299, EDCI 200, 201, 202. Family and consumer sciences programs at junior and senior high school level. Special emphasis on vocational education, curriculum development, evaluation procedures, and methods of teaching. 4 lec.

**345J Writing in Human and Consumer Sciences (4) (1J)**

Prereq: jr. (winter) Investigation and analysis of current issues and concerns in human and consumer sciences professions. Emphasis placed upon developing variety of writing formats in order to communicate effectively with selected audiences. 4 lec.

**391 Equipment (2-4)**

Prereq: 390. (arranged) Selection and use of household equipment including materials, construction, operation, and care.

**395 Home Management (3)**

Prereq: soph. (arranged) Decision making applied to use of family resources with purpose of creating family environment in which optimum human development will occur. 3 lec.

**396 Home Management Laboratory (4)**

Prereq: soph. (arranged) Principles of decision making and management in group living situation. Home management house experience provided. 8 lab

**450 Problems in Teaching Home Economics (2-4, max 6)**

Prereq: perm. (arranged) Individual problems in teaching.



**459 Human and Consumer Sciences Seminar, Workshop and Short Course in International Service (2-4)**

Special seminar or workshop for international students or for family and consumer sciences majors who want to prepare for international service.

**479A-K Workshop in Human and Consumer Sciences (1-6)**

Special workshops on topics related to human and consumer sciences.

- 479A Home Economics Education**
- 479B Clothing and Textiles**
- 479C Food and Nutrition**
- 479D Child Development**
- 479E Consumer Economics**
- 479F Home Furnishings**
- 479G Home Management**
- 479H Household Equipment**
- 479I School Lunch Management**
- 479K Family Life Education**

**490A-D Independent Study (2-5, max 15)**

Prereq: perm. Independent study, advanced level, under direction of faculty member in area of specialization.

- 490A Family Studies and Community Service**
- 490B Fashion and Retail Merchandising**
- 490C Interior Architecture**
- 490D Human Nutrition and Food Science**
- 491A Understanding Play (4)**  
Prereq: HCCF 160 or EDEL 200. Study of selected play theory for purpose of developing recreation therapy programs. (No credit if REC 460 is taken.) 3 lec, 2 lab.

**491B-F Seminar or Short Course in Human and Consumer Sciences (2-4)**

Advanced studies of research and recent developments in any of the five areas of family and consumer sciences.

- 491B Foods and Nutrition**
- 491C Home Economics Education**
- 491D Housing and Management**
- 491E Textiles and Clothing**
- 491F Research**
- 495H Human and Consumer Sciences Honors Seminar (1-4)**  
Prereq: perm. Research and recent developments in human and consumer sciences.

**497H Readings in Honors Work (1-4)**

Prereq: perm. Independent reading in preparation for honors thesis. Exploration of reading topics in consultation with faculty.

**498H Honors Practicum in Human and Consumer Sciences**

Prereq: perm. Implementation of honors project or research in advancement of honors thesis.

**499B Field Work in Home Economics—Job Training (5-12)**

Prereq: perm. (arranged) On-the-job training in area of specialization

**499B Field Work in Home Economics—Job Training (5-12)**

Prereq: perm. (arranged) On-the-job training in area of specialization

**499H Honors Thesis in Human and Consumer Sciences (3-7)**

Prereq: perm. Completion, oral defense, and presentation of honors thesis

**Interior Architecture (HCIA)**

**180 Introduction to Residential Design and Architecture (3)**

(fall, spring) Study of residential design and architecture. Topics include design fundamentals, history of design, construction systems and materials, interior components, and professional practice in interior architecture. 3 lec

**180A Introduction to Residential Design Studio (1)**

Prereq: 180 or concurrent, IT 104 or concurrent; major. (fall, spring) Investigation and application of design theory and residential space planning. 2 lab.

**181 Color Theory (4)**

Prereq: IT 104 or concurrent or HCRM major. Focuses on the characteristics, relationships, and theories of color based on major color systems. The visual and psychological effects of color and light, various color phenomena, and the formal and expressive elements of color for interior environments are explored. Color is studied in terms of furnishings and finishes as related to space, form, and light. 2 lec, 4 lab.

**200 Beginning Computer-Aided Design (2)**

Prereq: soph; CS 120 or MIS 201; HCID, HCRM, or Food Service Mgt major. (winter) Investigation of design using 3-D modeling and computer drafting applications. Emphasis given to application of these techniques to solve specific interior design/retail merchandising/food service types of design problems. 2 lec.

**201 Environmental Design Studio I (4)**

Prereq: major, concurrent 201A. Conceptual investigation of the built environment with relation to digital and physical media in the design process. Emphasis placed on 3-dimensional and 4-dimensional explorations. Students must have completed a successful portfolio review and maintain a computer workstation in the design studio for this course. 8 lab.

**201A Environmental Design Seminar I (2)**

Prereq: major only. Discussion and presentation of design and process theory and application as related to implementation of digital and physical media in the studio setting. Students must have completed a successful portfolio review and maintain a computer workstation in the design studio for this course. This course must be taken concurrent with HCIA 201. 2 lec.

**202 Environmental Design Studio II (4)**

Prereq: 201, 201A, concurrent 202A. Investigation of basic environmental design process, ideation, communication, and application and evaluation of materials. Students must maintain a computer workstation in the design studio for this course. 8 lab.

**202A Environmental Design Seminar II (2)**

Prereq: 201, 201A. Discussion and presentation of basic environmental design theories, concepts, and skills as related to projects in HCIA 202. Students must maintain a computer workstation in the design studio for this course. This course must be taken concurrent with HCIA 202. 2 lec.

**211 Problems in Environmental Design Studio I (4)**

Prereq: perm, non-major, concurrent 211A. Investigation for the non-major of conceptual issues of the built environment with relation to digital and physical media in the design process. Emphasis placed on 3-dimensional and 4-dimensional explorations. 8 lec.

**211A Problems in Environmental Design Seminar I (2)**

Prereq: perm, non-major. Discussion and presentation of design process theory and application as related to implementation of digital and physical media in the studio setting for non-majors. This course must be taken concurrent with HCIA 211. 2 lec.

**212 Problems in Environmental Design Studio II (4)**

Prereq: perm, non-major, concurrent 212A. Investigation for the non-major in concepts and issues of basic environmental design. Emphasis on understanding design process, research, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab

**212A Problems in Environmental Design Seminar II (2)**

Prereq: perm, non-major. Discussion and presentation of theories, concepts, and skills

related to HCIA 212. This course must be taken concurrent with HCIA 212. 2 lec.

**279 Rendering and Presentation Techniques (4)**

Prereq: 202. (fall) Emphasizes the rendering of texture, light, shadow, materials, and interior architectural details. Techniques include perspectives, elevations, isometrics, and sketching in various color and black-and-white media. Final presentation techniques, such as logo development, lettering styles, and point size, are stressed. 2 lec, 4 lab.

**288 Lighting Fundamentals (3)**

Prereq: jr.; pass portfolio review. (winter) Fundamental concepts of illumination. Examination of vision, light, color, tasks, and quality of light. Terminology, symbols, concepts, electrical systems, basic equations, and lighting calculations. Exploration of light sources and controls. Study of physiological and psychological considerations. 3 lec.

**299 Professional Practices (2)**

Prereq: major. (fall) Study of field of interior design concentrating on career opportunities and professional organizations. 2 lec.

**300 Computer-Aided Design: Professional Applications (2)**

Prereq: HCIA, HCRM, Food Ser Mgt major. Instruction of computer-aided design applications to support the generation of architectural floor plans, elevations, schedules and details in construction documents. 2 lec.

**301 Interior Architecture Studio I (4)**

Prereq: 202, 202A, concurrent 301A. Introductory studies in professional interior architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional, and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

**301A Interior Architecture Seminar I (2)**

Prereq: major. Discussion and presentation of theories, concepts, and skills related to 301. This course must be taken concurrent with HCIA 301. Students must maintain a computer workstation in the studio for this course. 2 lec.

**302 Interior Architecture Studio II (4)**

Prereq: 202, 202A, concurrent 302A. Intermediate studies in professional interior architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional, and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

**302A Interior Architecture Seminar II (2)**

Prereq: major. Discussion and presentation of theories, concepts, and skills related to 302. This course must be taken concurrent with HCIA 302. Students must maintain a computer workstation in the studio for this course. 2 lec.

**311 Problems in Interior Architecture I (4)**

Prereq: perm, non-major, concurrent 311A, jr or sr. Problems in interior architecture for non-majors. Emphasis placed on understanding design process, research, conceptualization, critique, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab.

**311A Problems in Interior Architecture Seminar I (2)**

Prereq: perm, non major, jr or sr. Discussion and presentation of theories, concepts, and skills

related to HCIA 311. This course must be taken concurrent with HCIA 311. 2 lec.

**330 Cyberspace Design: Construction and Implementation of 3-Dimensional Digital Environments (5)**

Prereq: 180. Exploration and design of 3-dimensional cyberspace environments as related to the discipline of interior architecture. 2 lec., 8 lab.

**340 Interior Design Computer-Aided Design (3)**

(fall, winter) Investigation and development of design using computer-aided design (CAD) program for floor plans, furniture placement, 3-D views, and plotting using computers. 2 lec, 2 lab.

**350 Materials Construction I (3)**

Prereq: soph, jr, or sr. Investigation of material selection and application, construction systems, and building codes as related to interior architecture. Field trips to actual construction sites when available. 3 lec.

**351 Materials Construction II (3)**

Prereq: 350. Investigation of interior finishes and materials, fire performance characteristics of materials, and material specifications. Field trips to actual construction sites when available. 3 lec.

**352 Business Procedures and Contract Documents (3)**

Prereq: 351. (spring) Investigation and application of business procedures, types of business, insurance, liabilities, contractual agreements, and the support materials needed to operate a professional design practice. Professional presentation skills explored. 3 lec.

**361 Professional Design Development and Construction Document Studio (4)**

Prereq: 301, 301A or 302, 302A; concurrent 361A. Emphasis placed on innovative and creative architectural detailing, communication issues and standards of architectural construction documents, application of building codes, and application accessibility and universal design issues. Students will create a set of construction documents that include code analysis, accessibility and universal design analysis, plans sections, details, schedules, and specifications. Projects based on continuation documents are created in electric format. Students must maintain a computer in the design studio as part of this course. Special fee \$15. 8 lab.

**361A Professional Design Development and Construction Drawing Seminar(2)**

Prereq: 301, 301A or 302, 302A. Discussion and presentation of theories, concepts, and skills related to HCIA 361. This course must be taken concurrent with HCIA 361. Students must maintain a computer in the design studio as part of this course. 2 lec.

**385 Home Furnishings Workshop (4)**

Prereq: 113, 180 or 6 hrs ART and perm. (arranged) Lab problems in advanced techniques in home furnishings, including upholstery, slip-covering, and refinishing furniture.

**389 Lighting Design and Application (3)**

Prereq: 288. (arranged) Application and design of interior illumination systems. Use of manufacturer product catalogs and data. Consideration of special lighting applications. Further study of light quality and color effects. Use of lighting formulas and calculations. 3 lec.

**400 Senior Seminar—Professional Evaluation (1-3)**

Coreq: 499 or concurrent. Provides opportunity for students to demonstrate personal growth by sharing experiences in verbal and written form with faculty and fellow students.

**401 Interior Architecture Studio III (4)**

Prereq: 361, 361A, concurrent 401A. Continuation of intermediate studies in professional interior architecture studio practices. Design investigations as related to research, analysis, theory, ideation and

conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

**401A Interior Architecture Seminar III (2)**

Prereq: 361, 361A. Discussion and presentation of theories, concepts, and skills related to 401. This course must be taken concurrent with HCIA 401. Students must maintain a computer in the design studio for this course. 2 lec.

**402 Interior Architecture Studio IV (4)**

Prereq: 361, 361A, concurrent 402A. Advanced studies in professional architecture studio practices. Design investigations as related to research, analysis, theory, ideation and conceptualization, programming, schematic design, project evaluation and refinement, materials, finishes and detailing, furnishings, lighting, communication graphics, and formal presentation. Topics vary based on current social and aesthetic issues that may include commercial, institutional and/or residential design typologies. Students must maintain a computer workstation in the studio for this course. Special fee \$15. 8 lab.

**402A Interior Architecture Seminar IV (2)**

Prereq: 361, 361A. Discussion and presentation of theories, concepts, and skills related to 402. This course must be taken concurrent with HCIA 402. Students must maintain a computer in the design studio for this course. 2 lec.

**411 Problems in Interior Architecture II (4)**

Prereq: perm, non-major, concurrent 411A, jr or sr. Problems in interior architecture for non-majors. Emphasis placed on understanding design process, research, conceptualization, critique, and evaluation of projects. Students may work in groups with interior architecture majors. 8 lab.

**411A Problems in Interior Architecture Seminar II (2)**

Prereq: perm, non-major, jr or sr. Discussion and presentation of theories, concepts, and skills related to HCIA 411. This course must be taken concurrent with HCIA 411. 2 lec.

**470 Research and Programming for Interior Architecture (3)**

Prereq: 361, 361A, sr. Research methodologies and programming as related to interior architecture. Related topics include behavior-environment relationships, study of precedents in design typologies, and foundations in design appropriateness. Work in class directly relates to the development of project statement, program, research, and analysis for senior thesis project. 3 lec.

**480 History of Furniture and Interior Design I (3)**

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the ancient world; the Middle Ages, Gothic and Renaissance; the French Periods and the Beidermeir Period. 3 lec.

**481 History of Furniture and Interior Design II (3)**

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of England (Tudor through Victorian) and America (Early American through Victorian). 3 lec.

**482 History of Furniture and Interior Design III (3)**

Prereq: jr. Study of the history of interiors, furnishings, decorative arts, and architecture of the twentieth century. 3 lec.

**484 Advanced Interior Design Studio II (4)**

Prereq: 281. (winter) Investigation, design, and specification of materials and furnishings for hotels and restaurants. Lab experiences include executing plans, elevations, perspectives, cost

estimates, rationales, and oral presentations. Special fee. 2 lec, 6 lab.

**486 Advanced Interior Design Studio IV (4)**

Prereq: 281, major. (spring) Investigation, design, and specification of materials and furnishings for historic preservation/restoration or adaptive re-use of historic structures. Lab experiences include executing plans, elevations, perspectives, cost estimates, rationales, and oral presentations. Special fee. 1 lec, 6 lab.

**495 Thesis Interior Architecture Studio (5)**

Prereq: 402, 402A, 470. Independent project design and development as proposed in HCIA 470. Project requires application of interdisciplinary knowledge. Includes final exhibition or project. Student must maintain computer workstation in the design studio for this course. 10 lab.

**499 Field Work—Interior Design (3-12)**

Prereq: 280, 350A, 352. On-the-job training through cooperation with residential and contract firms for interior design majors.

**Retail Merchandising (HCRM)**

**150 Design and Illustration Techniques (4)**

Design and illustration techniques in relation to stylization and customer profiling. Variety of media introduced for visually communicating through a variety of presentation formats. Students learn the fundamental elements and principles of design, composition, and layout in preparation for professional portfolio. 2 lec., 4 lab.

**201 Introduction to Retailing (4)**

(fall, spring) Introductory examination of retailing as major economic force in the country and as significant contributor for career opportunities. Practical analysis of retail operations and impact of socioeconomic factors. Focus on terminology, trends, retailers, and advances in retail technology. 4 lec.

**213 Design Analysis: Theory and Principles (4)**

Prereq: 117, soph, Tier I math. (arranged) Fundamental principles as applied to understanding use and fit of commercial pattern and apparel construction. Emphasis on scientific thought, creative expression, and construction problems. 2 lec, 4 lab.

**250 The Consumer in American Society (4) (25)**

Prereq: ECON 103 or soph. An analysis of basic components and operations of the economic system in the United States as they affect the consumer. Current consumer issues, influences, restrictions of consumer freedom of choice, major consumer expenditures, and resources which are available to consumers as they participate in decision making and consumption are discussed. 4 lec.

**283 Apparel Production Process (4)**

(on demand) Examination of ready-to-wear apparel production and manufacturing, related to design, sizing, fit and apparel components. 4 lec.

**299 Professional Development (4)**

Prereq: soph, jr or sr. (winter) In-depth study of career opportunities and job responsibilities; assessment of personal and professional assets and needs. On-the-job mini-experience related to career option. 4 lec.

**312 Studies in Clothing and Textiles (2-4, max 8)**

Prereq: perm. Selected topic in clothing and textiles.

**315 Elementary Textiles (4)**

Prereq: soph, Tier I math. (fall, winter) Properties and processing of fibers, yarns, fabrics, dyes, and finishes, with emphasis on consumer use. 3 lec, 2 lab.

**383 Product Development, Evaluation, and Distribution (4)**

Prereq: C or better 201 or 283. Examination of the evaluation criteria for quality control of apparel, and related products. 4 lec.

**399 Career Search Strategies (3)**  
Prereq: 299, jr, major. (fall) Job-seeking skills, company review, issues in professional development. Mini-professional experience. 3 lec.

**399A Retail Merchandising Field Work Experience (2)**  
Prereq: C or better in 399. Students seek and complete a field work experience in the retail industry for a total of 150 hours over a 5–10 week period (15–30 hours per week). Projects are related to the learning experience of the individual student. Emphasis is on reflection of the learning experience and its relationship to program goals.

**399B Retail Sales Internship (4)**  
Prereq: Acceptance into Sales Centre, perm. Students seek and complete a field work in an area of retail selling. A minimum of 300 hours of work experience are completed in an 8–10 week time period (37–40 hours per week). Projects are related to the learning experience and its relationship to program goals.

**400 Internship Preparation (1)**  
Prereq: C or better in 399. Professional skills are evaluated, internship plans are discussed, and portfolios are reviewed. 1 lec.

**405A History of Costume (4)**  
Prereq: jr. (winter) Costume through ages as reflection of historical period and source for present-day design. 4 lec.

**405B History of Textiles (2)**  
Prereq: 315. (spring, even yrs) Textiles through ages as reflective of historical period and source for present-day design. 2 lec.

**407 Global Issues in Textile, Apparel, and Retail Industries (4)**  
Prereq: C or better in 201, Jr comp, Sr. (winter) Economic factors influencing textile and fashion industries treated in depth. 4 lec.

**415 Flat Pattern (4)**  
Prereq: jr. (spring, odd yrs) Creative apparel design and interpretation with emphasis on flat pattern manipulation. 2 lec, 4 lab.

**416 Draping (4)**  
Prereq: jr. (arranged) Designing of apparel using draping techniques. Emphasis on fabric as medium rather than pattern development in design process

**417 Retail Merchandising—Management (4)**  
Prereq: 201, CS 120, HS 309, MIS 100 or HCID 340; jr. (fall, winter) Marketing and management principles related to buying and controlling of merchandise. Emphasis on organizational structure, personnel management, planning, buying, and controlling merchandise assortments. Retail mathematics problems included. 4 lec.

**418 Quality Control for Apparel and Textiles (4)**  
Prereq: C or better 315, sr. (spring) Principles, techniques, and standard testing methods for textiles and clothing. Lab sessions emphasize standard textile testing procedures and research methods. 2 lec, 4 lab

**419 Studies in Textiles Testing (3)**  
Prereq: perm. Individual research and lab testing of problems in advanced textiles.

**420 New York Study Tour (2)**  
Prereq: jr. (spring, even yrs) Directed study problems related to textile and apparel industry in conjunction with on-site tours of textile and apparel market centers. Fees for travel, food and housing. Students receive credit (CR), not a letter grade.

**423 Retail Merchandising—Promotional Strategy (4)**  
Prereq: C or better in 201, JOLP 250, 150 or APT 113 or 116 or HCIA 181, jr. or sr. Provides a broad understanding of the ways in which goods, services, and ideas can be promoted within the retail industry. Emphasis on practical application. Incorporates factors influencing retail

promotional planning such as communication theory, corporate and store image, target markets, and competitive marketplace stance with the promotional mix components. 4 lec.

**437 Strategic Merchandise Planning (4)**  
Prereq: C or better 417. (winter, spring) Advanced use of spreadsheets and merchandise mathematics incorporated into computer simulations of various merchandising techniques. Topics include assortment planning, buying, personnel management, and inventory control. 4 lec.

**454 Clothing for Persons with Special Needs (3)**  
(arranged) Exploring dressing techniques and functional design alternatives for individuals with special needs. Focus given to populations such as elderly, physically, or mentally disabled, and temporarily or permanently disabled. 3 lec.

**480 Strategic Retail Policy (4)**  
Prereq: C or better 499. Capstone course serves as an intensive personal and professional assessment tool for prospective retailers. Projects lead to a completed professional portfolio. 4 lec.

**499 Internship: Retail Merchandising (16)**  
Prereq: major, sr., 400, 12 hrs. from 383, 407, 417, 423, 437, perm. On-the-job experience through cooperation with industry and/or retail establishments.

## Humanities

See English.

## Human Resource Management (HRM)

**298 Internship (1)**  
Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**320 Human Resource Management (4)**  
Prereq: MGT 202 or MGT 240 or perm. Survey of human resource management practices in areas of human resource planning, recruitment, selection, training and development, performance appraisal, compensation, discipline, safety audits, and personnel research. Includes applications in employment law and discussion of interface of line and staff responsibilities in organization.

**324 Advanced Concepts in Human Resource Management (4)**  
Prereq: MGT 200 or 202 or 240. A course designed for students entering the HRM major. Topics covered include staffing, training and development, performance management, compensation and benefits, and employment relations. Also covered is the role of the HR manager as a contributing member of the management team and the strategic relationship of the HR function to the organization.

**398 Internship (1–4)**  
Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**425 Employee Relations (4)**  
Prereq: MGT 200 Study of discretionary and mandatory employee relations issues such as discipline procedures, individual employment contracts, union contract administration, and alternative dispute resolution. Topics also include employee safety and health issues, and compliance with health and safety regulations.

**430 Compensation Management and Human Resource Information Systems (4)**  
Prereq: 320 or 324, or perm. Advanced study of

compensation and the management of complex compensation systems. Topics will include job analysis, job evaluation, pay structure design and implementation, and performance-based pay. The role of information systems in the creation and administration of compensation systems will be addressed.

**440 Training, Development, and Performance Management (4)**  
Prereq: 320 or 324. Advanced study of strategic knowledge and performance management systems in organizations. Topics include design, delivery, and evaluation of human resource development and knowledge management interventions; employee performance measurement systems design, implementation, and evaluation.

**450 Recruitment and Selection (4)**  
Prereq: 320 or 324. Students will gain expertise in the design and application of strategic internal and external recruitment and selection methods, legal compliance and application to relevant issues such as downsizing, rightsizing, reengineering, and outplacement.

**455 International Human Resource Management (4)**  
Prereq: HRM 320 or 324. Course exposes students to the management of human resources in foreign countries. Students will explore topics dealing with cultural issues associated with doing business in different countries. Recruiting, selecting, and motivating individuals in a foreign country, and the unique challenges of multinational human resource management will be studied.

**460 Strategic Human Resource Management (4)**  
Prereq: 430, 440, 450. Integrative course serving as capstone course. Students expected to apply functional HRM knowledge to an understanding of how, through acting as internal change agents, HRM helps the organization achieve its strategic objectives. Current applications such as outsourcing and downsizing may be brought into focus.

**491 Seminar (1–5)**  
Prereq: perm. Selected topics of current interest in human resource management.

**497 Independent Research (1–4)**  
Prereq: perm. Research involving some human resource management topic. Topic selection and study are under direction of faculty member.

**498 Internship (1–4)**  
Prereq: perm.

## Human Services Technology (HST)

The following courses for the A.A.S. in human services technology are available on the Chillicothe and Southern campuses.

**100 Introduction to Human Services Technology (4)**  
Comprehensive introduction to knowledge and skills required for successful human services work. Topics include history and issues in human services, philosophical models, methods of service delivery, professional roles, and others.

**120 Crisis Intervention (3)**  
Provides theoretical understanding and skill-based training in assessment and intervention strategies that are solution oriented and that may be applied to a variety of crisis situations

**150 Behavior Management I (3)**  
Prereq: PSY 101 recommended. Examines application of behavioral principles and techniques to various human problems. Emphasis on learning to objectively describe, measure, and analyze behavioral data. Ethical issues in behavior management discussed

**151 Behavior Management II (4)**

Prereq: 150. Continuation of 150, exploring additional applications of behavioral techniques in both individual and group settings. Practice provided in contingency contracting and designing token economy.

**152 Behavior Management III (4)**

Prereq: 151. Continuation of 151 with emphasis on specific behavioral techniques such as progressive relaxation training and biofeedback. Discussion of cognitive methods of behavior change. Course also attempts to integrate use of behavioral techniques with other intervention approaches.

**165 Intervention Strategies (4)**

Explores theories and current issues in counseling and intervention; also discusses methods for implementing outcomes, as well as values and ethical practice concerns.

**170 Group Dynamics I (4)**

Prereq: PSY 101 recommended. Explores theories and issues current in group dynamics. Provides exercises to demonstrate applications of various theoretical positions. Also discusses methods for implementing groups and outcome evaluation.

**171 Group Dynamics II (3)**

Prereq: 170. Continuation of 170 with emphasis on participation in variety of group exercises. Students involved both as participants and group leaders. Critical feedback and evaluation provided through videotaped group sessions.

**175 Chemical dependency (3)**

Explores the dynamics of substance abuse and chemical dependency, along with treatment models and intervention strategies.

**190 Case Management (4)**

Introduction to the philosophy, goals, and methods of case management and its roles in the fields of social and protective services, mental retardation/developmental disabilities, mental health, and corrections.

**200 Personal Management (3)**

Examines management of one's own behavior and positive relationship with others in social context. Emphasis on empathy and understanding through literature and/or other modes of communication.

**210 Practicum I (2)**

Prereq: perm. Students will participate in 150 hrs of supervised field experience at local agency or institution. Provides opportunity to gain practical training and experience under guidance and supervision of professional agency staff.

**211 Practicum Seminar I (1)**

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 210.

**220 Practicum II (2)**

Prereq: 210. Provides additional opportunities to develop helping skills and to practice techniques learned in class. Students may opt for more intensive experiences at same agency as 210 or select another from those participating with HST program. 150 hrs required.

**222 Practicum Seminar II (1)**

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 220.

**250 Practicum III (2)**

Prereq: 220. Emphasis of final 150-hr practicum on continued skill development and broadening of experience. Students who have completed 210 and 220 at same agency expected to select another for final practicum.

**255 Practicum Seminar III (1)**

Opportunity for group discussion of special topics and problems related to student practicum experiences and professional development. Enrollment concurrent with 250.

**275 Community Resources (3)**

Prereq: soph or perm. Topics include basics of program planning; organizing community and local support for programs; researching potential funding sources. Development of grant writing skills including the areas of budget preparation and program evaluation.

**290 Special Problems (1-4, max 10)**

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interests arise. Additionally, credit may be awarded for advanced practicum experiences. May be repeated.

**Indonesian/Malaysian**

See Foreign Languages and Literatures.

**Industrial Maintenance Technology (IMT)**

The following courses for the proposed A.A.S. in industrial maintenance technology are available only on the Lancaster campus:

**110 Applied Manufacturing Techniques (3)**

Comprehensive study of machine processes used in manufacturing with regard to selection, plant layout, and maintenance requirements. 2 lec, 2 lab.

**115 Welding and Fabricating (3)**

Welding and fabricating, including use of sheet metal fabricating. Covers gas and electric welding and cutting processes, as well as weld joint preparation and finishing. 1 lec, 4 lab.

**117 Metal Machining I (3)**

Prereq: 110. Basic operation and capabilities of conventional machine tools commonly used in the repair and maintenance of industrial equipment. 1 lec, 4 lab.

**150 Machine Repair I (3)**

The study of basic machine components used to build industrial machinery. Topics include gears and gear boxes, drivers, clutches, brakes, chains, couplings, and others. This course includes a hands-on laboratory experience providing the student with the necessary skills to repair or replace these components in various types of machinery.

**189 Special Topics (1-3, max 9)**

Prereq: 110. Special topics that are current and relevant to the industrial maintenance field. May be repeated.

**217 Metal Machining II (3)**

Prereq: 117. Study and application of advanced metal machine tool practices, including the programming and operation of computer numerical controlled (CNC) milling equipment. 1 lec, 4 lab.

**220 Basic Hydraulics and Pneumatics (4)**

Application of hydraulic and pneumatic principles to common industrial control circuits, emphasizing maintenance of hardware and circuitry. 2 lec, 4 lab.

**230 Tool Design (4)**

Prereq: 117. Basic jig and fixture design. Relation to manufacturing processes, material requirements, gauging and cutting tools, with emphasis on repair and maintenance. 1 lec, 6 lab.

**240 Materials and Material Testing (3)**

Prereq: 110. Applications of materials used in manufacturing and design, including metals, plastics, ceramics, lubricants, coatings, and testing methods. 2 lec, 2 lab.

**250 Machine Repair II (3)**

Prereq: 150. Machine repair as it relates to industrial equipment, including replacement of machine components such as bearings, shafts,

and other wearing parts. 1 lec, 4 lab.

**275 Self-Directed Work Teams (4)**

Industrial work teams and the methods used to make them work. Explores use of continuous improvement and project management as they relate to the team concept. Includes field trips to local companies utilizing these methods. 2 lec, 4 lab.

**289 Independent Study (1-5, max 5)**

Prereq: 110. Study of a particular topic pertinent to the industrial maintenance field under the direction of a faculty member. May be repeated. 1-5 lec, 2-8 lab.

**290 Externship (4)**

Prereq: 110, 115, 117, 220, 240, 250. Performance of industrial maintenance technician duties in a supervised, unpaid experience, working 20 hours/week with a local company. Efforts are made to rotate experience.

**Industrial Technology (IT)****100 Introduction to Industrial Technology (1)**

Introduction to career opportunities, job functions, and professional organizations in industrial technology. Discussion of curriculum and departmental procedures. 1 lec.

**101 Engineering Graphics Fundamentals (3)**

Basic theory and practice in engineering drawing. Topics include geometric construction, orthographic projection, dimensioning, and auxiliary, section, and pictorial views. Lab activities include free-hand sketching and computer-aided design (CAD) using AutoCAD and SolidEdge software. 2 lec, 3 lab.

**102 Engineering Graphics Applications (4)**

Prereq: IT 101. Theory and practice of constructing three-dimensional geometric models using computer aided-design (CAD). Also includes geometric dimensioning and tolerancing, fasteners, and the integration of graphic documents into the industrial environment. Lab activities include development of note, detail, and assembly drawings. 2 lec, 4 lab.

**103 Computer Applications in Industrial Technology (4)**

Study of computer hardware and software including operating systems, word-processing, spreadsheet, business graphics, presentation, and Web application software. Lab exercises will stress common applications of software in engineering and technology and use of networks to share data among applications. 3 lec, 2 lab.

**104 Architectural Drawing (5)**

Prereq: interior design major or perm. Basic techniques used in architectural drawing. Includes use of instruments, orthographic and isometric projection, floor plans, elevations, and sections. 5 lec.

**110 Introduction to Manufacturing Processes (4) (2A)**

Survey of industrial materials and processes with applications to current manufactured consumer products. Emphasis is placed on generic processes such as forming and separating as applied to a variety of industrial materials. 4 lec.

**111 Manufacturing Materials (4)**

Survey of industrial materials used in manufacturing. Includes characteristics and applications of ceramic, metallic, and polymeric materials, primary and secondary manufacturing processes for conversion into standard stock, parts and finished products, and relationships between product requirements and materials characteristics. Lab activities emphasize use of manufacturing documentation and tooling to produce quality products. 3 lec, 2 lab.

**112 Introduction to Manufacturing (4)**

Prereq: 101. Introduction to the workings of a manufacturing enterprise. Includes the study of planning, organizing, and controlling labor,

material, equipment and tooling. Lab activities emphasize use of manufacturing documentation and tooling to produce quality products. 2 lec, 4 lab.

#### **117 Basic Metal Machining (4)**

Prereq: 101. Study and application of the machining processes used in manufacturing, emphasizing economic impact of design parameters. Includes process planning, machine tool set up and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to CAD/CAM (computer-aided design/computer-aided manufacturing) and nontraditional machining. Lab activities include analyzing part prints, selecting equipment, and using traditional machine tools to produce parts. (No credit for both 117 and 216.) 2 lec, 4 lab.

#### **201 Computer Graphics (4)**

Prereq: 101. Study and application of advanced computer-aided design (CAD) and computer-aided engineering (CAE) systems using solid modeling and parametric design principles. Includes the development of product models, assemblies, detailed drawings, and analysis models to generate multiple product variations. Also includes data translation issues related to CAD/CAE data and raster and vector conversations. Lab activities based upon commercial CAD/CAE systems. 2 lec, 4 lab.

#### **205 Geometric Dimensioning and Tolerancing (4)**

Prereq: IT 102, (117 or 216). Theory and practice of geometric dimensioning as a precise engineering language to specify part geometry based on the function and relationship of assembled parts. Includes size tolerances, data, and all geometric characteristics. 4 lec.

#### **206 Computer Methods in Industrial Technology (4)**

Prereq: (IT 103 or MIS201 or CS120). IT 112. Study of common methods and algorithms in industrial technology. Emphasis on design methodology for developing solutions to industrial problems using commercial software. Lab activities include advanced spreadsheet modeling of algorithms and database design implementation. 3 lec, 2 lab.

#### **208 Industrial Plastics (4)**

Prereq: 102, 111, 112, (CHEM 121 or 151). Study of plastics materials and manufacturing processes. Includes material properties and applications. Emphasis on major industrial processes including injection molding, extrusion, and thermoforming. Lab activities include material testing, process set-up and operation, and quality control. 2 lec, 4 lab.

#### **215 Metal Casting (4)**

Prereq: 102, 111, 112. Theory and practice of cast metals and foundry processes. Includes pattern design, pattern making, sand analysis, charge metal composition, flow analysis, and foundry-related documentation. Lab activities include sand casting and full mold casting of aluminum. 2 lec, 4 lab.

#### **216 Metal Machining (4)**

Prereq: 102, 111, 112. Study and application of machining processes used in manufacturing, emphasizing shop floor management and problem solving. Includes process planning, machine tool set up and operating procedures, metal cutting parameters, and machine tool capabilities. Also includes precision measurement and introduction to computer numerical control (CNC) and nontraditional machining. Lab activities include analyzing part prints, selecting equipment, and using traditional machine tools to produce parts. (No credit for 117 and 216.) 2 lec, 4 lab.

#### **217 Production Metal Machining (4)**

Prereq: 206 and 216. Theory and practice of production techniques for metal machining using computer numerical control (CNC), machine tools, and electrical discharge machining (EDM). Includes part print analysis, process analysis and planning, quality assurance factors, and computer-aided design and machining (CAD/CAM). Lab

activities include programming CNC turning and machining centers to create molds and mass-produce parts. 2 lec, 4 lab.

#### **218 Metal Fabricating and Casting (4)**

Prereq: 102, 111, 112 (CHEM 122 or 152). Theory and practice of sheet metal forming and fabricating, and hot metal casting. Explores the relationship between material properties and processing capabilities. Lab activities emphasize shearing, bending, welding, mechanical fastening, and sand casting. 2 lec, 4 lab.

#### **220 Aircraft Powerplants (4)**

Prereq: Aviation management or flight major. Theory of operation of reciprocating engines and gas turbine engines for aircraft. Exposure to thermodynamics of power delivery. Includes fan, jet, shaft, and propeller propulsion machines. Also includes propulsion systems issues such as fuel, lubrication, air supply, and electrical systems. Lab experiences provide investigation of actual hardware and exposure to FAA regulations and engine maintenance considerations. 3 lec, 2 lab.

#### **221 Power Transmission (4)**

Prereq: PHYS 201 or 251. Theory and application of physical principles associated with the use of mechanical, hydraulic, pneumatic, and electrical power in manufacturing. Includes gear trains, couplings, clutches, pumps, cylinders, compressors, and electric single and multiphase motors. Lab activities include working with gear systems, internal combustion engines, conveyors, motors, hydraulic and pneumatic systems. 3 lec, 2 lab.

#### **222 Civil Engineering Graphics (3)**

Prereq: 101, CE major. Theoretical applications of problems relating to true length lines, angle between a line and a plane, dihedral angles, and true size and shape of places. Development of practical application drawings in the areas of poverty layout, road plan and profile, reinforced concrete retaining walls, environmental problems, layout of water, storm sewer, and sanitary sewer utilities. Includes use of computer-aided design (CAD) software. 2 lec, 3 lab.

#### **230 Manufacturing Computer Technology (4)**

Prereq: 206. Overview of hardware platforms, operating systems, networks, and applications used in manufacturing. Includes use of computers to support automated production machinery and equipment. Emphasis on designing, planning, developing proposals for, and implementing integrated computer and production systems. Lab demonstrations illustrate the technology components presented in lecture. 3 lec, 2 lab.

#### **231 Manufacturing Database Applications (4)**

Prereq: 206. Survey of database types and their applications in manufacturing. Includes principles of database design and implementation. Also includes introduction to e-commerce and the sharing of database information over the Internet. Activities include using IDEF1x to design databases, developing graphical front-ends, and implementing typical manufacturing databases using commercial software. 3 lec, 2 lab.

#### **303 Applications of Object Oriented Programming (4)**

Prereq: 206. Introduction to object oriented programming and rapid application development using Visual Basic as programming language. Lab activities emphasize the development of programs for various industrial technology applications, including the use of graphics and integration with other Windows-based programs. 3 lec, 2 lab.

#### **309 Plastics Tooling (4)**

Prereq: 208. Study of tooling required for extrusion, injection molding, compression molding, thermo-forming, and other production processes used to produce plastic parts. Lab activities include design and construction of molds for plastic forming. 2 lec, 4 lab.

#### **317 Superabrasive Machining (4)**

Prereq: 216. Study and application of industrial diamonds and cubic boron nitride tools for metal

machining and grinding. Includes manufacture, identification, and selection of superabrasive tools. Lab activities include tool wear studies and economic analyses. 2 lec, 4 lab.

#### **318 Computer Numerical Control (4)**

Prereq: 217. Advanced computer-aided design and computer-aided machining (CAD/CAM) for computer numerical control (CNC) machine tools. Lab activities emphasize mold design and construction on CAD/CAM software. 2 lec, 4 lab.

#### **320 Hydraulics and Pneumatics (4)**

Prereq: 221. Application of hydraulic and pneumatic principles to common industrial uses for power transmission and mechanism control. Includes a study of hardware and circuitry. Lab activities include construction and testing of fluid power circuits. 2 lec, 4 lab.

#### **332 Industrial Electronics (4)**

Prereq: 221, PHYS 202 or 252. Theory and application of fundamental concepts of DC and AC circuits. Includes measurement of DC and AC electrical parameters and operation of electrical output devices such as transistors, operational amplifiers, AC and DC motors, solenoids, and transformers. Also includes Boolean logic used in digital circuits. Lab experiences include building, testing, and troubleshooting basic AC and DC electrical circuits. 3 lec, 2 lab.

#### **337 Manufacturing Networks and Data Communications (4)**

Prereq: 230, 332. Theory and applications of communication technology used in manufacturing plants. Includes study of dedicated device communications, network communication protocols for interconnecting manufacturing equipment and computers, and specialized standards for communicating with controllers and shop floor data acquisitions systems. 3 lec, 2 lab.

#### **347 Plastics Molding Processes (4)**

Prereq: 208, 216, (CHEM 121 or 151). (fall) In-depth analysis of selected molding plastics processes including essentials of product/process design and their impact on product quality. Lab activities involve extensive analysis of molding and processes. 2 lec, 4 lab.

#### **348 Plastics Forming and Fabricating (4)**

Prereq: IT 208, 216 (CHEM 121 or 151). Advanced study of plastics product manufacturing using extrusion, blow molding, thermo-forming, fabrication, composite, and finishing processes. Includes part and mold/die design, material selection, process optimization, and manufacturing costs. Lab activities include mold building and testing and process optimization. 2 lec, 4 lab.

#### **351 Production Tooling (4)**

Prereq: 208, 217, 218. Theory and practice of designing and constructing tooling to improve productivity and quality in various manufacturing applications. Includes an introduction to tool and die design. Lab activities include using computer-aided design (CAD) software to design work holding jigs and fixtures. Also includes construction and testing of jigs, fixtures, and gages. 2 lec, 4 lab.

#### **354 Automatic Identification and Data Capture (4)**

Prereq: 332. Study of methods and systems used to automatically identify objects including bar coding, optical character recognition, magnetic stripe, radio frequency identification and biometrics. Various industrial applications will be studied, such as inventory, production control, order picking, and shipping/receiving. Lab experiences emphasize application of automatic identification technologies. 3 lec, 2 lab.

#### **361 Product Design (4)**

Prereq: 102, 206, (208 or 216). Study of product design from concept to release for production, with emphasis on design for manufacturability. Lab activities include the design, development, and creation of a prototype product using various software systems. 3 lec, 2 lab.



**362 Product Documentation (4)**

Prereq: 206, 208, 216, 218. Theory and practice of documenting the objectives and outcomes of a manufacturing company using the international quality standard ISO 9000:2000. Also includes product configuration control and product data management (PDM). 4 lec.

**363 Quality Assurance and Metrology (4)**

Prereq: 206, 208, 216, 218, ENG 305J, and MATH 251 or QBA 201. Theory and practice of quality assurance principles in manufacturing. Includes statistical process control, process capability, gage capability, and quality management. Lab activities include experiments in linear measurement using traditional tools and computerized coordinate measurement machines (CMM). 3 lec, 2 lab.

**390 Industrial Materials (4)**

Prereq: 208, (CHEM 122 or 152). Advanced theory and application of common industrial materials. Includes examination of the behavior of ceramics, polymers, metals, and composites. 4 lec.

**395 Industrial Work Experience (1)**

Prereq: perm. Credit for work experience related to B.S.I.T. degree. Minimum 10-week term of fulltime employment required. Written report required. May be repeated for maximum of 3 credits.

**400 Senior Seminar (1)**

Prereq: sr. Discussion of projected employment opportunities, career enhancement activities, and professional development options in industrial technology. 1 lec.

**405 Dimensional Analysis (4)**

Prereq: 205. Study effects of general and geometric dimensioning on the form, fit, and function of an assembly of parts. Emphasis on solving assembly stack-up problems by manual calculation and computer simulation programs to determine clearance or interference between assembled components. 4 lec.

**435 Industrial Instrumentation and Controls (4)**

Prereq: 303, 332. Theory and application of digital controls in manufacturing. Includes relay logic and closed loop control theory using negative feedback. Introduction to sensors, signal conditioning, circuits, D-A and A-D conversion, and Proportional-Integral-Derivative (PID) control. Lab experiments include programmable logic controllers and control of mechanical, hydraulic, pneumatic and electrical systems. 3 lec, 2 lab.

**436 Electronic Applications in Manufacturing (4)**

Prereq: 332. Study of practical applications of electronic control systems in manufacturing, including sensors, process control, packaging systems, assembly and material handling. Emphasis on analysis and improvement of existing applications. Lab activities focus on the integrated control of conveyors, robots, and machines. 3 lec, 2 lab.

**452 Contemporary Integrated Manufacturing (4)**

Prereq: (351 or 354), OPN 310. Capstone course. Theory and application of computer and information technology in manufacturing. Introduces integration strategies and product phases from conception to retirement. Lab activities include the implementation of the above plan including tool build, plant layout, and actual production of parts and product. IT 452 and 462 must be taken as a two quarter sequence. 3 lec, 2 lab.

**462 Product Manufacturing (5)**

Prereq: (351 or 354), 363, OPN 310. Capstone course requiring student teams to use knowledge from previous technical and business courses to develop a manufacturing plan for a product. Development and implementation of a plan for manufacturing a product. Includes production planning and control, resource planning, product cost considerations, facilities planning, and tooling design and construction. Lab activities include the implementation of the above plan including tool build, plant layout, and actual

production of parts and product. IT 452 and 462 must be taken as a two quarter sequence. 2 lec, 6 lab.

**464 Robotic Applications (4)**

Prereq: 332. Theory and application of robots used in manufacturing. Includes classifications, sensors and feedback mechanisms, robot/computer communications, and programming. Also includes selection of robots based on task and economic criteria. Lab activities include on- and off-line programming of robots and developing robotic work cells. 3 lec, 2 lab.

**483 Industrial Safety (3)**

Prereq: 217. Study of organized industrial safety programs, including historical and social perspectives. 3 lec.

**484 Maintenance Systems (4)**

Prereq: 320 or 332. Study of organized industrial maintenance systems. Includes environmental control, structural, mechanical, and electrical requirements. 4 lec.

**490 Special Investigations (1-4)**

Prereq: perm. Independent concentrated study in a specific area under the direction of a faculty member.

**491 Special Topics in Industrial Technology (1-5)**

Prereq: perm. Selected topics that are current and relevant to industrial technology. May be repeated.

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**Interdisciplinary Arts (IART)**

Offerings include courses in introduction to fine arts and history courses in individual content areas.

IART 117 and 118 are provided for majors in the College of Fine Arts who wish to study the relationship of all the arts, and for all students in the University who wish to select courses with the basic purpose of understanding their cultural heritage.

These courses fulfill:

- 1 Tier II requirements for majors in the College of Fine Arts.
- 2 Tier II requirements for students in other degree colleges and for transfer students from other universities; and
- 3 State requirements for licensure in the College of Education.

**117 Introduction to Fine Arts (4) (2H)**

Designed to develop and increase the perceptual skills of students in the arts through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. Painting, sculpture, architecture, literature, and music are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

**118 Introduction to Fine Arts (4) (2H)**

Designed to develop and increase the perceptual skills of students in the arts through an examination of subject, matter, form, and content in each art by means of a critical method of analysis. Photography, film, theater, dance, and opera are covered. Opportunities for participation with the arts through lectures, technical demonstrations, campus field trips, and small-group discussions.

**150 Viewing Performance (2)**

Integrates classroom and student life activities at the University by combining the productions of the Schools of Music, Dance, and Theater with a seminar course dealing with characteristics and artistic concerns of each medium. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for DANC 150, MUS 150, or THAR 150.

**211 History of Art (4) (2H)**

Survey of Western painting, sculpture, and architecture from prehistoric to early Christian. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 211.

**212 History of Art (4) (2H)**

Continuation of 211 from early Christian period of Europe through Renaissance. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 212.

**213 History of Art (4) (2H)**

Continuation of 212 from Baroque to present. Students advised but not required to enroll in 211, 212, and 213 in sequence. No credit to those with credit for AH 213.

**270 Theater History I (4) (2H)**

Development of theater and drama in prehistoric, Greek, and Roman periods. No credit to those with credit for THAR 270.

**271 Theater History II (4) (2H)**

Development of theater and drama in Medieval and Renaissance periods. No credit to those with credit for THAR 271.

**272 Theater History III (4) (2H)**

Development of theater and drama from Renaissance to modern. No credit to those with credit for THAR 272.

**320X Fine Arts—Florence (1-6)**

Prereq: enrollment in OU Italy Program. (spring) Study of fine arts as seen and performed in city of Florence. Churches, museums, and galleries, along with theatrical and musical events, provide examples for study.

**321 History and Literature of Music (3)**

Prereq: MUS 103. *R. Wetzel*. History of music with survey of musical literature to 1450. No credit to those with credit for MUS 321.

**322 History and Literature of Music (3)**

Prereq: 321 or MUS 321. *R. Wetzel*. History of music with survey of musical literature, 1450-1720. No credit to those with credit for MUS 322.

**323 History and Literature of Music (3)**

Prereq: 322 or MUS 322. *R. Wetzel*. History of music with survey of musical literature, 1720 to present. No credit to those with credit for MUS 323.

**360J Writing in the Arts (4) (1)**

Prereq: 117, 118; major in fine arts; or perm. Critical analyses of form, media, and content in fine arts stressing instruction in critical writing.

**400 Senior Seminar: Comparative Arts (3)**

Prereq: fine arts sr or perm. Designed to increase insight of art majors into all fine arts. Specifically, to understand similarities and differences which exist among several arts through consideration of basic aesthetic concerns.

**419 Great Masterworks (4)**

Life, times, and works of at least two major artists within specified cultural period.

**470 Tragedy (4)**

Study of tragic genre through study of plays and critical and theoretical documents. No credit to those with credit for THAR 470.

**471 Comedy (4)**

Study of comic genre through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 471.

**472 Forms of Drama (4)**

Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for THAR 472.

**481 Individual Problems (1-6)**

Prereq: perm.

## International Studies (INST)

The following courses are available through the Center for International Studies. Four are interdisciplinary courses focusing on Africa (113), Asia (103), Europe (118), and Latin America (121). These courses, which provide an introduction to the regions, satisfy social science requirements, University General Education Tier II (Cross-Cultural Perspectives) requirements, as well as major and certificate requirements.\* In addition, 80 faculty members in various departments on campus teach more than 150 courses each year that relate to Africa, Asia, Latin America, and Europe.

### 103 Modern Asia (5) (2C)

Introduction to history, cultures, and current problems of civilizations of Asia. Interdisciplinary survey dealing with China, Japan, India, and Southeast Asia (Burma, Thailand, Vietnam, Cambodia, Laos, Malaysia, Singapore, Indonesia, and the Philippines).

### 113 Modern Africa (4) (2C)

Interdisciplinary introductory survey of Africa, its culture, history, and modern development. Disciplines include: anthropology, art, dance, economics, education, geography, history, linguistics, literature, and political science.

### 118 European Studies (4) (2S)

An interdisciplinary introduction to Europe and European Studies through discussion of selected topics from perspectives of geography, history, politics, sociology, economics, literature, and the arts. Special emphasis is given to post-Cold War issues, problems, and developments.

### 121 Interdisciplinary Survey of Latin America (4) (2C)

Introduction to Latin America through geography, politics, sociology, economics, literature, and art. Special emphasis given to 20th Century issues, problems, and developments.

### 350 Focus on Malaysia (5)

Introduction to geographical, historical, demographic, cultural, and political settings of Malaysia within the wider context of Southeast Asia. A survey of the historical development of Malaysia with emphasis on the period from the Second World War.

### 490 Tun Razak Seminar: Southeast Asia Studies (5)

The Tun Razak Seminar is designed to enable the holder of the Tun Abdul Razak Chair to present his or her particular specialization. This means the content of the course could be different from year to year, depending on the discipline of the holder. The focus of the course will be on Malaysia as well as other parts of Southeast Asia.

### 495 Internship (1-15)

This course is designed to allow for a practical experience in an international organization or corporation in the U.S. or abroad to complement the theoretical base supplied in area studies and comparative cultures courses. The applied experience will allow you to see the practical way in which cross cultural issues and second language usage are manifested in a work environment. The internship experience will also allow you to identify personal learning goals that will enhance your career prospects.

\*For degree requirements, see "International Studies" in the College of Arts and Sciences section.

## Italian

See Foreign Languages and Literatures.

## Japanese

See Foreign Languages and Literatures.

## Journalism (JOUR)

### 101 Journalism and Society (4)

An overview of the nature, purposes, and influence of journalistic work within its social, political, economic, historical, and international contexts. No credit if JOUR 105 or TCOM 105 taken.

### 105 Introduction to Mass Communication (4) (2S)

All forms of mass communication, including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities. No credit if JOUR 101 or TCOM 105 taken.

### 133 Precision Language for Journalists (4)

Intensive drill in grammar, punctuation, syntax, and usage in contexts designed especially for future journalists. Extensive attention to media examples. Diagnostic tests during first week place each student to work at own level, whether basic to prepare for beginning courses or more advanced for those who already show considerable ability but would like to sharpen language skills for advanced courses. No credit if 133A. Either 133 or 133A satisfies journalism core requirement.

### 133A Precision Language for Journalists (4)

Same as 133 except reserved for majors. No credit if taking 133. Either 133 or 133A satisfies journalism core requirement.

### 189 Journalism Workshop (1-4)

Workshop on selected topics of journalism and mass communication. May be repeated to total 6 hrs of credit.

### 221 Graphics of Communication (5)

Creative and practical aspects of typography, layout, and design of printed communication.

### 231 News Writing (4)

Prereq: typing proficiency and C or better in 133 or 133A. Methods of gathering and evaluating news and writing typical news stories. Practice work covering assignments and preparing copy. No credit if 231A. Either 231 or 231A satisfies journalism core requirement.

### 231A News Writing (4)

Same as 231, including same prereqs, except reserved for majors. No credit if 231. Either 231 or 231A satisfies journalism core requirement.

### 233 Information Gathering (3)

Prereq: C or better in 133 or 133A. Gathering of information by journalists and other mass communicators from various sources, such as interviewing, use of libraries, government documents, computerized data bases, syndicated research, and business documents. Prepares communicators to conduct research and to assess and use material in media-related decision making.

### 235 Picture Editing (3)

Prereq: 221, 231. Same as VICO 335. Principles and practices of picture editing. Includes consideration of picture sources, assignment, and handling; photographic technique and aesthetics; legal and ethical factors; visual idiosyncrasies of various media.

### 250 Advertising Principles (4)

Major factors in development of advertising programs.

### 270 Introduction to Public Relations (3)

Prereq: soph. Provides an overview of public relations, its history, development, practice, and application. Looks at the process of public relations, including the planning, implementation, and evaluation of public relations campaigns. Surveys techniques, strategies, and tactics used by public relations practitioners. Analysis of case studies.

### 311 History of American Journalism (4)

Prereq: 233. Development of newspaper,

magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

### 314 Fundamentals of Online Journalism (4)

Prereq: 221, 231, 233, or perm. Selecting, editing, writing, and formatting content for Web-based media. Evaluating and criticizing online journalistic practices.

### 321 Print Advertising and Layout (4)

Prereq: 221, 231 or 231A, 250. See title.

### 331 Reporting Contemporary Issues (3)

Prereq: 231 or 231A. Research, reading, and speech reporting on current social problems. Emphasis on analytical skills and ability to report in depth for mass audience.

### 233 Information Gathering (3)

Prereq: C or better in 133 or 133A. Gathering of information by journalists and other mass communicators from various sources, such as interviewing, use of libraries, government documents, computerized data bases, syndicated research, and business documents. Prepares communicators to conduct research and to assess and use material in media-related decision making.

### 235 Picture Editing (3)

Prereq: 221, 231. Same as VICO 335. Principles and practices of picture editing. Includes consideration of picture sources, assignment, and handling; photographic technique and aesthetics; legal and ethical factors; visual idiosyncrasies of various media.

### 250 Advertising Principles (4)

Major factors in development of advertising programs.

### 270 Introduction to Public Relations (3)

Prereq: soph. Provides an overview of public relations, its history, development, practice, and application. Looks at the process of public relations, including the planning, implementation, and evaluation of public relations campaigns. Surveys techniques, strategies, and tactics used by public relations practitioners. Analysis of case studies.

### 311 History of American Journalism (4)

Prereq: 233. Development of newspaper, magazine, and broadcast journalism from colonial period to present. Social, political, economic, and mechanical aspects.

### 314 Fundamentals of Online Journalism (4)

Prereq: 221, 231, 233, or perm. Selecting, editing, writing, and formatting content for Web-based media. Evaluating and criticizing online journalistic practices.

### 321 Print Advertising and Layout (4)

Prereq: 221, 231 or 231A, 250. See title.

### 331 Reporting Contemporary Issues (3)

Prereq: 231 or 231A. Research, reading, and speech reporting on current social problems. Emphasis on analytical skills and ability to report in depth for mass audience.

### 332 Reporting Practice (2)

Prereq: 231 or 231A, perm. Students develop news stories in city and sports reporting, along with features.

### 333 News Editing (4)

Prereq: 221, C or better in 231 or 231A. Copyreading, headline writing, news selection, and layout of news pages.

### 334 Editing Practice (2)

Prereq: 333, perm. Copyreading, handling of local correspondence, wire copy, and working out make-up problems.

### 336 Advanced Picture Editing (3)

Prereq: 325, 335, and perm. Advanced course in picture editing designed to equip students with basic knowledge and working skills necessary for employment on newspaper or magazine picture desk.

**340 Advertising Strategies (4)**

Prereq: 233, 250. A case analysis approach to discover techniques for solving advertising problems.

**350 Radio Broadcast News (4)**

Prereq: 231 or 231A and 233. Intensive writing and reporting skills development for radio news broadcast.

**352 TV Broadcast News (4)**

Prereq: 250. Intensive writing and reporting skills development for television news.

**353 Broadcast News Practice (2)**

Prereq: 350. Preparation of news for broadcast. Students serve as assistants in newsroom of University's broadcasting stations or, by special arrangement and perm, in other stations.

**362 Community Newspapers (3)**

Prereq: 333 or perm. Editorial and business practices of suburban weeklies and dailies.

**363 Reviewing and Criticism (3)**

Prereq: 231 or 231A and major, or perm. Written criticism of fine and popular arts. Special role of critic who serves both as reporter and evaluator of artistic works for lay audience.

**370 Media Relations and Publicity (4)**

Prereq: C or better 221, 270, 333. Focus on publicity function of public relations and on skills in both public relations writing and media contact.

**375 Advertising Media Planning and Buying (4)**

Prereq: 250, 340. Strategy, techniques, and problems of planning and buying media. Learning to buy space and time effectively and economically. Learning use of syndicated sources of media information.

**407 Electronic Publishing (4)**

Prereq: 221, 231 or 231A. Introduction to the production, design, and techniques of electronic publishing using a journalistic approach. Explores many software packages for electronic publishing using Macintosh computers and provides experiences to develop a thorough knowledge of electronic publishing.

**411 Communication Law (3)**

Prereq: C or better in 231 or 231A and 233, or perm. Principles and case studies in communication law, constitutional guarantees, libel, privacy, contempt, privilege, copyright, and government regulatory agencies.

**412 Ethics, Mass Media, and Society (3)**

Prereq: C or better in 411 or perm. Social responsibility of journalistic or other mass communicator. Professional codes, responsibility of media for social change, reaction to political and economic pressures.

**415 Online Journalism Practice (3)**

Prereq: 314 or perm. Development and production of a news site incorporating audio, video, and text formats. Stress on newsgathering and presentation skills in an online media environment. Repeat with perm. Max 6 hours.

**416 Seminar in Online Journalism (3)**

Prereq: 314, 333. Introduction to ethical, theoretical, and societal issues of the Internet and online journalism. Digital divide and diversity, social impact of the Internet, and communicators' new roles in a globally networked society.

**418 Web Editing and Management (3)**

Prereq: 314. A problem-solving approach to creation and management of interactive features; evaluating effectiveness of Web sites; strategies and problems of site development.

**419 Legal Issues of Online Journalism (3)**

Prereq: 314. Legal issues as they apply to online journalism.

**421 Graphic Production Processes (5)**

Prereq: 221 and perm. Advanced study of all processes for reproducing printed communication. Theory and lab.

**422 Advertising Production (4)**

Prereq: 221, 321, or perm. Techniques and problems in methods of advertising production.

**430 Magazine Editing and Production (4)**

Prereq: 221, 233. Theory and techniques of magazine editing and production, including analysis of magazine industry and of specific magazines and audiences they serve. Editorial objectives and formulas, issue planning, article selection, layout, illustration, typography, printing, and distribution. Magazine project required.

**431 Magazine Production Practice (3)**

Prereq: 430, 441, repeat with perm, max 9 hrs. Practice course on E.W. Scripps School of Journalism's quarterly lab magazine. Each student assigned specific responsibilities in magazine editing, production, advertising, and circulation.

**432 Specialized Business Magazines (4)**

Prereq: 233 or perm. In-depth study of professional, business, industrial, and technical magazines. Consideration of all types of publishing problems, usually as case studies.

**435 Advanced Editing (3)**

Prereq: 333. Edit content on deadline for *Athens.com* and its affiliated publications. Work with professional copy editors across the state to broaden perspectives on the craft of news editing.

**441J Magazine Feature Writing (4) (1J)**

Prereq: 231 or 231A, 233 or perm. Writing and marketing factual magazine feature articles of various types. Finding subjects, securing photographs, writing articles, and surveying markets.

**442 Advanced Magazine Feature Writing (3)**

Prereq: 441. Writing and marketing magazine articles. Emphasis on specialized markets.

**450 Advertising Copy Writing (3)**

Prereq: 221, 231 or 231A, 250. Effective persuasion in advertising media.

**452 Broadcast News Producing (4)**

Prereq: 352. Principles and practices of radio and television news production. Emphasis on blending news judgment with production techniques and tools.

**455 Seminar in Broadcast News (3)**

Prereq: 350, 352. Discussion of problems—operational, social, economic, legal, and ethical—faced by broadcasters reporting public affairs.

**458 TV News Practicum (4)**

Prereq: 352. Practicum in preparation and presentation of TV newscast. Students select news material, including video, format, and script for newscast, then deliver on air. Students will rotate through various newsroom positions during quarter.

**459 Advanced TV News Practicum (3)**

Prereq: 452, 458. Advanced practicum in preparation and presentation of TV newscast. Students involved in selecting, editing, scripting, and formatting for on-air newscasts. Students also appear on air and assume management responsibilities.

**461 Specialized Journalism (3)**

Prereq: sr and perm. Seminar approach to individual study of journalistic areas of special interest to individual students.

**464 Reporting of Public Affairs (3)**

Prereq: 231 or 231A, sr, major, or perm. Problems of preparing in-depth, interpretive, and analytical reports on public affairs for mass media, with practice in writing such reports. Focus mostly on contemporary issues.

**465 The Editorial Page (3)**

Prereq: 333, sr, major, or perm. Problems of content, selection, and presentation of opinion on editorial page. Extensive writing of analytical and persuasive editorials and in-depth interpretive articles.

**466 International Mass Media (4)**

Prereq: sr. Development and operations of world mass communication channels and agencies. Comparative analysis of media, media practices, and flow of news throughout world. Relation of communication practices to international affairs and understanding.

**467 Foreign Correspondence (4)**

Prereq: 231 or 231A, or perm. Role of foreign correspondent in news gathering. History, scope, techniques.

**468 Column Writing (3)**

Prereq: 231 or 231A. The study of newspaper columnists, past and present, with extensive writing of various kinds of columns.

**470 Sportswriting (3)**

Prereq: 231 or 231A. A look at sportswriting from lead to 30—the good, the bad, and the ugly of life in a sports press box.

**471 Public Relations Principles (4)**

Prereq: 370, sr, and PR major or perm. Using contemporary case studies, all aspects of public relations are studied and analyzed in group discussions and written projects. Heavy emphasis on participation in class discussions.

**472 Advanced Public Relations (4)**

Prereq: 471 or perm. Planning public relations programs and projects, including selection of audiences, messages, and media, and evaluation of effects. Project in area of student's interest.

**475 Advanced Advertising Media Planning and Buying (4)**

Prereq: 250, 375, jr. Media theories appropriate in specific client advertising situations. Use of computer software for solving media problems. Review, creation, and testing of quantitative and qualitative media models, advanced work in media objectives, strategy, tests, and execution of media plans and evaluation.

**476 Advertising Research (4)**

Prereq: 233, 250. Original research in advertising, research methods and procedures, and syndicated/secondary research.

**477 Promotional Media (4)**

Prereq: 375. Overview and professional projects concerning media sales and promotion management. Development of sales promotion plan and professional advertising sales presentations.

**479 Computer Assisted Reporting (3)**

Prereq: 233; 331 or 464. Advanced class designed to introduce fundamentals of computer assisted reporting, specifically using database analysis.

**481 Newspaper Management (3)**

Prereq: 333. Problems in publishing affecting all departments.

**482 Advertising Management (4)**

Prereq: 340 and additional 8 advertising hrs. See title.

**484 Supervising School Publications (4)**

Prereq: 12 hrs or perm. Conference course for prospective advisors of school newspapers, yearbooks, magazines, and other publications. Purposes and functions, legal aspects, staff selection, content, copy, layout, production, printing, advertising, photography, business.

**485 Journalism in the Secondary School Curriculum (4)**

Prereq: 9 hrs of journalism. Intensive study and analysis of appropriate content for high school journalism courses. Planning course outlines and curricula.

**486 Advertising Campaigns (5)**

Prereq: 375, 450, and 8 additional advertising hrs. Capstone course in advertising sequence to provide thorough understanding of basic elements of advertising campaigns. Includes creation of campaign.



**488 Humor Writing for Print, Broadcast (3)**

Prereq: jr or sr, perm. Theory and techniques of writing humor for newspapers, magazines, speeches, and other media.

**489 Journalism Workshop (1-4)**

Selected topics of journalism and mass communication, including newspapers, yearbooks, advertising, magazines, photojournalism, public relations, and publications advising. May be repeated to total 10 hrs of credit.

**490 Independent Study (1-4, max 15)**

Prereq: written proposal and perm. See title.

**491 Research in Journalism and Communications (1-15)**

Prereq: perm.

**492 Seminar (1-5)**

Prereq: perm. Selected topics of current significance. May be repeated with different topics to 12 hrs credit.

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**Latin**

See Foreign Languages and Literatures.

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**Latin American Studies**

See International Studies.

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**Law Enforcement Technology (LET)**

The following courses for the A.A.S. in law enforcement technology are available on the Chillicothe and Southern campuses:

**100 Introduction to Law Enforcement Technology (3)**

Philosophy and history of law enforcement; overview of crime and police problems; organization and jurisdiction of local, state, and federal law enforcement agencies; survey of professional career opportunities and qualifications required.

**110 Police Role in Crime and Delinquency (3)**

Extent and distribution of crime and delinquency, with special emphasis on basic factors and conditions contributing to problem; some case study and evaluation of community resources in prevention field and detailed review of role of school, family, religious institutions, law enforcement agencies, courts, and correctional institutions. Part law enforcement agencies play in juvenile delinquency control, organization and functions of related juvenile agencies, laws governing handling of juvenile offenders, and brief resume of juvenile court and its jurisdiction.

**120 Constitution, Criminal, and Civil Law (3)**

Prereq: 100. Study of U.S. Constitution and amendments thereto by text material and case method system, major emphasis on freedom of speech, search and seizure, arrest and detention, interrogation and confession, self incrimination, right to counsel, double jeopardy, and due process situations.

**130 Interviewing and Report Writing (3)**

Examination of interviewing and interrogation procedures employed by law enforcement for obtaining information, plus practical experience in use of methods. Mechanics of writing reports, including collecting information and taking statements, writing descriptive narratives, and report revision.

**140 Introduction to Criminalistics (3)**

Survey of systematic collection of evidence and potentialities and recommendations of applied science to criminal investigation. Includes demonstration of techniques used in processing criminal evidence and practical experience in selected crime lab methods.

**150 Police Patrol Operations (3)**

Focus on patrol function. Examination of purposes, methods, techniques, and types of patrol. Overview of support services, examination of various police services and public assistance, and analysis of deployment procedures and practices as related to overall mission of police patrol.

**200 Procedures, Rules, and Test of Evidence (4)**

Prereq: 120 or perm. Instruction designed to acquaint officer with court system in Ohio, its functions, authority, and duties. Explains workings of all courts of record and provides description of mayor's courts which are only courts not of record in State of Ohio. Kinds and degrees of evidence. Admissibility of evidence in criminal court cases, materiality and competency of evidence. Distinction between admissions and confessions; exceptions to hearsay rule; types of evidence.

**210 Cybernetics (3)**

Application and use of computers and/or automated systems for rapid storage and retrieval of information. Types of electronic data processing systems and their compatibility with contemporary police operations explored.

**220 Court Procedures and Processes (3)**

Case preparation, officer testimony and demeanor in court, effective preparation and presentation of criminal evidence, trial procedures, utilization of written notes, and reaction to cross examination.

**230 Police Community Relations (3)**

Nature of relationships between police and various segments of community; racial and/or ethnic minorities, news media, clergy, and youth explored. Historical reasons for present dilemma and suggested changes to alleviate these problems.

**240 Law Enforcement, Administration, and Supervision (3)**

Prereq: 100. Principles of law enforcement agency administration. Organization, planning and research, management, personnel management, training, and public relations. Administrative functions in vice control, crime delinquency prevention and control, patrol, investigation, communications, statistics, and records.

**250 Vice and Narcotic Control (3)**

Prereq: 140. Exploration of history, identification, and effects of narcotics. Narcotic and vice problem as it exists and penal statutes affecting control of narcotics and vice studied.

**260 Criminal Investigation (3)**

Fundamentals of investigation; crime scene search and recording; correction and preservation of physical evidence, scientific aids, modus operandi, sources of information, interviews and interrogation, follow-up, and case preparation. 3 lec, 2 lab.

**270 Arrest, Search, and Seizure (3)**

Prereq: 200. In-depth discussion of moral and legal obligations in use of police weapons. Includes legal provisions, safety precautions, and restrictions in use of firearms. Advanced theories and application, police combat shooting, all-weather firing, and new developments in police weaponry. Training for student in lawful methods of search and seizure and discussion of search of persons, places, and things, with emphasis on legality. Applicable court decisions and rulings presented and discussed. 3 lec, 2 lab.

**275 Law Enforcement and the Deaf (4)**

Problems involved in working with a deaf suspect/victim. Includes different types of deaf, different sign languages, problems in communication, cultural aspects, and protecting individual rights and the officer's case. Covers ADA requirements for law enforcement, courts, and attorneys.

**276 Legal Rights of Hearing Impaired (4)**

Up to date legislation involving hearing impaired/deaf citizens.

**280 Traffic Enforcement, Education, and Engineering (3)**

Prereq: 100. Law relating to registration of motor vehicles, driver's license, Vehicle Code sections most often encountered and violated, regulation and traffic control, traffic accident investigation, traffic accident report forms; types and uses.

**290 Special Problems (3)**

Provides opportunity for students to explore topics of interest on individual basis, or in structured courses developed as common interest arises.

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**Library Science**

See Education—Curriculum and Instruction.

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**Linguistics (LING)**
**270 The Nature of Language (5) (25)**

Nontechnical introduction to the basic nature of human language: its sound patterns, structure of words and sentences, nature of meaning, children's acquisition of language, animal communication, ways languages change, etc.

**275 Introduction to Language and Culture (4)**

Prereq: soph or above. Study of similarities and differences of language behavior in variety of cultural contexts.

**280 Language in America (4)**

Prereq: soph or above. Analysis of similarities and differences in language behavior in America, including dialects and immigrant languages.

**350 Introduction to Linguistics (5)**

Prereq: jr or sr; credit not given for both 270 and 350. Technical introduction to linguistic principles and methods of description in the areas of phonetics, phonology, morphology, syntax, and semantics.

**351 Fundamentals of Linguistics (5)**

Prereq: 270 or HSL5 208; credit not given for both 350 and 351. General course in fundamental linguistic principles; duality of patterning; phonetics/phonology; syntax/semantics; morphology.

**360 Sounds of World Languages (4)**

Prereq: 270 or 351 or HSL5 208 or SP 437 or FR 437. Articulatory and acoustic description of English and other languages of the world through work with native speakers.

**370 Introduction to Psycholinguistics (4)**

Prereq: 270 or 350 or 351 (or concurrent) or perm. Study of linguistic behavior and psychological mechanisms responsible for it.

**390 Language of Women and Men (4)**

Prereq: jr or perm. American speech as used by women and men in terms of linguistic and social factors.

**395 Introduction to Area Linguistics (3-5)**

Prereq: perm. Investigation of linguistic characteristics of specific group or subgroup of languages within Malayo-Polynesian or African families.

**410 Language Teaching Practicum (3)**

Prereq: 475 and 480. Practice in the teaching of English as a second or foreign language with faculty supervision.

**412 Internship in TESOL (1-5)**

Prereq: perm. Practice in ESL teaching, instructional support, and/or program administration.

**440 Introduction to Bilingualism (4)**

Prereq: 270 or 350 or 351 (or concurrent) or perm. Introduction to bilingual theories from psychological, sociological, educational, and linguistic perspectives.

**451 Computers for Language Teaching I (4)**

Prereq: 270 or 350 or 351 (or concurrent) or perm. Introduction to uses of computers for language teaching, software selection, and creation of supplementary computer-assisted language learning (CALL) materials.

**452 Computers for Language Teaching II (4)**

Prereq: 451 and 480 or ML 445 or perm. Creation of CALL materials using authoring packages, authoring languages, or programming languages.

**453 Computers for Language Teaching III (4)**

Prereq: 452. Developing a comprehensive CALL package.

**460 Phonology (5)**

Prereq: 270 or 350 or 351 (or concurrent) or perm. Introductory course in analysis of sound systems of natural languages.

**470 Syntax (4)**

Prereq: 270 or 350 or 351. Introduction to theory and application of grammatical analysis of natural languages.

**475 Theories of Language Learning (4)**

Prereq: 270 or 350 or 351 or concurrent. Introduction to theories of first and second language acquisition and their implications for language teaching methodology.

**480 TEFL Theory and Methodology (4)**

Prereq: 475 or concurrent. Second language teaching theory and methodology, with emphasis on teaching English as foreign language.

**481 Methods and Materials in TESL (4)**

Prereq: 475 or concurrent. Introduction to methods, techniques, and materials useful in the teaching of English in second language contexts and specifically in the public schools.

**482 Materials in TEFL (4)**

Prereq: 480 or concurrent. Theory and practice of analysis, evaluation, and creation of instructional materials for teaching English as a foreign language.

**483 Testing in TESL (4)**

Prereq: 480 or 481 or concurrent or perm. Evaluation and writing of language test items appropriate for measuring global competency and competency in specific skill areas. Entry and exit testing for public school ESL programs also discussed.

**485 Historical Linguistics (4)**

Prereq: 460. Study of genealogical classification of languages, and of historical change in language systems.

**490 Sociolinguistics I (4)**

Prereq: 270 or 350 or 351. Observation and analysis of similarities and differences of language behavior in variety of linguistic and sociocultural contexts.

**491 Sociolinguistics II (4)**

Prereq: 490. Introduction to relationships between interlocking systems of language and social grouping.

**495 Directed Research (3)**

Prereq: perm. Independently directed project on a particular topic of interest in linguistics; required of all majors.

**496 Field Methods (4)**

Prereq: 460 and 470. Methods of eliciting, transcribing, organizing, and analyzing linguistic data.

**499 Special Studies in Linguistics (1-3)**

Prereq: perm. Independent study of particular area of interest in linguistics.

**Malaysian**

See Foreign Languages and Literatures.

**Management (MGT)****100 Managing (2)**

Introduces the basic concepts of management and the basic functioning of business. In addition, students develop an understanding of current issues confronting managers in business and nonprofit organizations. Emphasis on starting to develop the skill to reason like a manager.

**191 Workshop in Management (1-4)**

Provides traditional and nontraditional students with specialized course offerings directed toward identified needs. Facilitates offering short courses, workshops, and institutes involving intensified instruction in pertinent management areas.

**202 Management (4)**

Prereq: soph. Understanding of and practice in solving problems facing managers and administrators using concepts and principles from behavioral sciences and other applicable disciplines.

**240 Introduction to Management and Organization (4)**

Prereq: soph; College of Business majors only. Provides an introductory coverage of topics in management. The course offers an early focus on teamwork and group dynamics to assist students when they take the integrated cluster. The course also includes specific assignments designed to enhance COB majors' Electronic Student Portfolios.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**340 Organizational Behavior (4)**

Prereq: jr. Examines the behavior of individuals and groups in organizations. Focus on high performance and satisfaction in the modern workplace, and in context of cultural diversity, globalization, ethical behavior, and social responsibility. Designed to enhance career readiness in management and team leadership.

**345 Organizational Behavior—Macro Perspective (4)**

Prereq: jr. Organizational theory and behavior emphasizing formal organizational theory and work group behavior. Concentrates on interaction between organization, its environment and its members, and influences of informal work groups on member behavior.

**350 Creativity and Innovation Management (4)**

Prereq: jr. Examination of the role of creativity and innovation in business with a particular focus on the management of the innovation process. Students will explore personal creativity, management practices that enhance or suppress creativity, the relationship between creativity and innovation, and the process of innovation in a business setting.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**430 Management Systems—Decision Making (4)**

Prereq: 202 or 240 or perm. Decision making and problem solving in organizations from managerial perspective.

**462 Women in Management (4)**

Prereq: junior. This course explores a variety of social-psychological research on gender issues that affect work behaviors in today's rapidly changing workforce. Emphasis is placed on student activities, research of pertinent topics, readings, reports, online dialogue, and incorporates community service learning.

**480 Managing Transformations and Organizational Change (4)**

Prereq: 340. Examines theories, concepts, and applications relating to change leadership in the modern workplace. Focus on internal processes of organizational transformation, change, and development. Designed to improve leadership potential through understanding change models and strategies, resistance to change and change leadership roles in the context of a dynamic, uncertain, and ever-changing external environment.

**484 International Comparative Management (4)**

Prereq: sr. Survey and analysis of similarities and differences in management systems, processes, and styles, as well as evaluation of changes and their impact in selected groups of countries.

**486 Business World of Asia (4)**

Prereq: 202 or 240 or sr or perm. Examines the current business environment of Asia from the perspective of contemporary history, culture, religion, political economy, geography, and current events. Emphasis is given to developing awareness of global information resources on prospects for active business involvement in Asia. Students are encouraged to develop special expertise in one of the Asian countries, to network with one another for broader understanding, and to pursue in-depth areas of special personal interest.

**490 Strategic Business Leadership (4)**

Prereq: MGT 340, MGT 350, and sr. Examination of the leadership theories in the context of the strategic business challenges of increased global competition, advances in technology, and the importance of intellectual capital. The focus is on the executive ability to make strategic choices that generate superior performance within and by organizations.

**491 Seminar (3-5)**

Prereq: jr or perm. Selected topics of current interest in management and organizational behavior area.

**492 Management Thought (4)**

Prereq: sr. Review of development of managerial theories from 5000 B.C. to present with consideration of their application to current organizational settings.

**494 Management Research (4)**

Prereq: 12 hrs of management courses. Practical application of research methods in behavioral sciences to management problems, emphasizing research available and its use in decision making and in solving managerial problems.

**497 Independent Research (1-4)**

Prereq: perm. Research in selected fields of management and organizational behavior under direction of faculty member.

**497H Independent Research (1-4)**

Prereq: 3.3 g.p.a., written proposal, and perm. Independent research. Course content selected by professor and student.

**498 Internship (1-4)**

Prereq: perm.

**499 Strategic Business Leadership Portfolio (1)**

Prereq: MGT 340, 350, 480, and 490 or concurrent. Formalizes in an electronic portfolio a comprehensive demonstration and self-assessment of the student's career readiness for strategic business leadership. Involves a formal portfolio defense. A "CR" must be received in this course to graduate with a major in Management and Strategic Leadership.

## Management Information Systems (MIS)

**201 Introduction to Microcomputers (3)**  
Introduces student to computer concepts within the framework of business applications. Students do computer assignments including word processing, spreadsheet analysis, presentation software, and web pages. No credit for both 201 and CS 120.

**202 Business Information Systems (4)**  
Prereq: 100 or 201 or CS 120 or CTCH 125 or BMT 200 or H5 309 or IT 103. Addresses issues that arise in dealing with management information as a business resource. As an introduction to the field of management information systems, topics covered deal with computer technologies, information development, and impact of information systems on business organizations at a variety of levels, from personal information systems to organization information architectures. Major attention is given to the implications of information systems for achieving competitive advantage.

**220 Introduction to Business File Processing (4)**

Prereq: 100 or 201 or CS 120 or CTCH 125 or BMT 200 or H5 309 or IT 103. Students learn to write programs in a GUI environment to solve business problems. Structured programming is emphasized.

**225 Prototyping and Fourth Generation Languages (4)**

Prereq: 220 with B grade or better. Students will learn how to write business applications using fourth generation languages to process data in an object-oriented environment.

**230 Advanced Microcomputer Spreadsheet Applications (4)**

Prereq: 100 or 201 or CS 120 or CTCH 125 or BMT 200 or H5 309 or IT 103. Advanced functions of spreadsheet programs will be examined. Groups of spreadsheet applications will be integrated to create systems designed to support common business functions.

**235 Advanced Microcomputer Data Base Applications (4)**

Prereq: 100 or 201 or BMT 200 or CTCH 125 or CS 120 or H5 309 or IT 103. Relational data base software will be used to create integrated data storage and retrieval systems. These systems will be used to solve business problems.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**320 Business Systems I (4)**

Prereq: 220 with B grade or better. Coreq: MIS 380. First of a two-part series related to the development of computer information systems in business. This course looks at the planning and management of information systems development projects, along with tools for requirements analysis and evaluation of alternatives. Emphasis on prototyping and use of fourth generation languages.

**325 PC LAN Applications (4)**

Prereq: 220 with B grade or better. Introduction to Local Area Networks. Students serve as network administrators to install, cable, and configure a Local Area Network. Topics include creating users, installing software, setting up printers, establishing security, and managing the network.

**380 Business Data Base I (4)**

Prereq: 220 with B grade or better. Coreq: 320. Focuses on the use of relational data base technology in implementing business applications. Emphasizes the concepts of data base design and implementation and gives students a chance to create their own data bases.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**400 Contemporary Business Programming (4)**

Prereq: 320 and 380. Students learn how to develop business applications using contemporary business programming tools and techniques. Programming languages and development environments are revised periodically based on accepted and evolving business practice.

**420 Business Systems II (4)**

Prereq: 400. Coreq: 485. Second of a two-part series on the development of computer information systems in business. This course looks at tools for design and implementation of computer information systems, along with testing and maintenance of systems.

**430 IBM COBOL (4)**

Prereq: 320 and 380. Deals with application of COBOL programming language to problems in marketing, finance, management, accounting, and economics.

**455 Distributed Systems (4)**

Prereq: 325. This class treats organization-wide networking, comparing the advantages and disadvantages of various network configurations. The class emphasizes Wide Area Network planning, with special attention to data administration policies and procedures.

**460 Introduction to Groupware Applications (4)**

Prereq: 320, 380. Introduction to the industry standard groupware product, Lotus Notes. The purpose of this course is twofold: (1) an understanding of groupware, groupware applications, and business implications of these applications, and (2) hands-on experience with using Lotus Notes and designing/developing groupware applications.

**480 Business Data Base II (4)**

Prereq: 380. This course builds on the concepts learned in Business Data Base I. Students learn to use advanced data base features in a lab-oriented environment. Applications will be written to solve business problems using the data stored in the data base.

**485 Management Information Systems (4)**

Prereq: 400. Coreq: 420. This is the capstone course for MIS majors. It will focus upon ways in which information systems can be created to give competitive advantages to businesses. The class will emphasize the management of computing from a people and data perspective, demonstrating that computer-based systems are increasingly the principal tool of effective management.

**491 Seminar (1-4)**

Prereq: 320, 380. Selected topics of current interest in the management information systems area.

**492 Lab Assistant Seminar (1-15)**

Prereq: perm. Students assist instructors with advising of students in lab classes. Assistants must receive an A in the lab class to be eligible to serve as an assistant. One hour of credit is given for three hours of assistant work.

**497 Independent Research (1-4)**

Prereq: accepted proposal and perm. Research in selected fields in management information systems under the direction of a faculty member. Student must submit a proposal and have it accepted by a faculty member before taking this course.

**498 Internship (1-4)**

Prereq: 12 hrs of MIS courses above 100, perm.

## Marketing (MKT)

**101 Consumer Survival in the Marketplace (4)**

How a consumer can adapt himself or herself to modern marketing environment to increase satisfaction derived from spending his or her money.

**202 Marketing Principles (4)**

Prereq: ACCT 101. Formerly 301. This course provides a broad understanding of marketing activities, decisions, and terms with an emphasis on the practices and problems of marketing managers and the analysis of the marketing environment.

**258 Skills for Professional Development (4)**

Focuses on developing personal skills such as time management, networking, telephone use, computer etiquette, business etiquette, positive thinking, stress management, career planning, listening, and mapping the informal organization. Topics chosen by instructor.

**298 Internship (1)**

Prereq: perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**358 Professional Selling Techniques (4)**

Prereq: 202 or 301; marketing major or perm. This course combines personal selling theory with actual practice. Students learn skills needed for successful careers in sales and marketing.

**379 Marketing Research (5)**

Prereq: 202 or 301; QBA 201 or equiv. statistics course. This course provides an introduction to the field of marketing research for effective decision-making. Students will learn techniques involved in collection, tabulation, and analysis of marketing information.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**404 Management of Distribution (4)**

Prereq: 202 or 301; ACCT 102; preference to majors. Problems encountered by manufacturer in establishing and maintaining effective distribution system, concentrating on channel design and strategies.

**420 Services Marketing (4)**

Prereq: Prereq: 202 or 301 or perm. This course reflects the increasing proportion of GNP taken up by the service sector. Industries that do not sell a physical good as their main offering to the public are examined. These could include the recreations industry, government agencies, financial institutions, and professional (legal, medical) services.

**425 Business to Business Marketing (4)**

Prereq: 202 or 301. This course introduces the field of business-to-business (B2B) marketing. The course answers the questions: What is business marketing? In what markets does it occur? Topics include Organizational buyer behavior, methods of assessing business market opportunities, and business marketing strategies.

**441 International Marketing (4)**

Prereq: 202 or 301; preference to majors. This course focuses on understanding the major issues facing international/global marketing managers today through the application of marketing principles in the international/global business environment.

**444 Consumer Behavior (4)**

Prereq: 202 or 301. This course illustrates the practical importance of understanding consumers' knowledge and attitudes, incorporating various approaches for assessing such knowledge and attitudes. It identifies major factors that influence

how consumers process and learn marketing information and considers various techniques marketers can use to influence consumer attitudes and behavior.

**450 Management of Promotion (4)**  
Prereq: 202 or 301; preference to majors. This course integrates communication theory, concepts and research with in-depth treatment of the following elements of the promotional mix: advertising, sales promotions, public relations, and point-of-purchase communications.

**458 Advanced Topics in Sales (4)**  
Prereq: 358. Principles and practices in planning, organizing, and controlling sales force. Selection, training, compensating, supervising, and stimulating salespeople. Analysis of sales potentials and costs.

**463 Marketing Strategy (4)**  
Prereq: 20 hrs of MKT including 202 or 301 and 379. This capstone course focuses on the integration of marketing knowledge accumulated as a marketing major. It includes situation analysis and development of strategic marketing plans. Consideration is given to the complex dynamic environment in which all marketing activities take place.

**491 Seminar (1-4)**  
Prereq: perm. Selected topics of current interest in marketing area.

**493 Readings (1-4)**  
Prereq: perm. Readings in selected fields of marketing. Topics selected by student in consultation with faculty member.

**497 Independent Research (1-4)**  
Prereq: perm. Research in selected fields of marketing under direction of faculty member.

**498 Internship (1-4)**  
Prereq: perm.

## Materials Management Technology (MMT)

The following courses for the proposed A.A.S. in materials management technology are available only on the Lancaster campus:

**101 Introduction to Materials Management (4)**  
Introduction to career of materials management, covering roles and responsibilities of the materials manager and how they relate to manufacturing processes.

**189 Special Topics (1-3, max 9)**  
Prereq: 101. Special topics that are current and relevant to the materials management field. May be repeated.

**200 Computer Applications in Materials Management (4)**  
Computer applications in materials management, including the use of data bases for inventory control, purchasing, and other electronic information. Also covers computer applications for electronic communications. 2 lec, 4 lab.

**250 Shipping and Warehousing (3)**  
Prereq: 101. Shipping and warehousing of materials from point of origin to point of destination, emphasizing packaging, transportation, and storage. 2 lec, 2 lab.

**262 Plant Layout and Material Handling (3)**  
Prereq: 101. Basic principles of plant facilities layout in relation to the flow of material through the workplace, including study of material handling system to move material in bulk or containers to and from the manufacturing processes. 2 lec, 2 lab.

**263 Process Control (3)**  
Prereq: Tier I MATH Analysis of basic principles of quality control, including frequency distribution, sampling inspection, and charts and gauges related to inspection. Field trips part of lab activity. 2 lec, 2 lab

**264 Production Scheduling (3)**  
Various established techniques of scheduling, analyzing, and improving production operations. Focuses on detailed study of applications for CPM, PERT, MRP, and other production systems. 2 lec, 2 lab.

**270 Introduction to Organizational Behavior (4)**

Types of behavior organizations exhibit and human relations skills. Covers face-to-face discussions, dialogue over the phone, and other communication skills.

**289 Independent Study (1-5, max 5)**  
Prereq: 101. Study of a particular topic pertinent to the materials management field under direction of a faculty member. May be repeated. 1-5 lec, 2-8 lab.

**290 Externship (4)**  
Prereq: 101, 200, 250, 262, 263, 264. Performance of materials manager duties in a supervised, unpaid experience, working 28 hours/week with local businesses. Efforts are made to rotate experience.

## Mathematics (MATH)

**101 Basic Mathematics (4)**  
Prereq: placement level Dev1. Developmental course in arithmetic and elementary algebra for students with unusually weak backgrounds. Credit applies as hours toward graduation but meets no other college requirement. No credit to student who has passed higher-level mathematics course.

**102 Elementary Algebra (4)**  
Prereq: placement level Dev2. Developmental course in algebra for students with unusually weak backgrounds. A maximum of 8 credit hours of developmental courses may be applied for graduation. Meets no other college requirement. No credit to student who has passed higher-level mathematics course Available on regional campuses.

See General Education Requirements in the Graduation Requirements—University Wide section for quantitative skills requirements.

**109 Consumer Mathematics (4) (1M)**  
Prereq: placement level 1. (formerly 151) Applications of elementary mathematics to day-to-day problems. Special emphasis on consumer topics such as compound interest, mortgages, and installment buying. Scientific calculator required. Does not apply to arts and sciences requirements. No credit to those with credit for course above 150.

**113 Algebra (5) (1M)**  
Prereq: 101 or placement level 1. Topics in algebra including functions, linear equations and systems, polynomials, rational and radical expressions, quadratic equations, exponential and logarithmic functions, and inequalities. Graphing calculators are employed. No credit to those with credit for 117 or 263A.

**115 Pre-Calculus (5) (1M)**  
Prereq: 113 or placement level 2. Graphs, inverses, and operations of functions. Study of polynomial, rational, exponential, logarithmic, and trigonometric functions. Additional topics from trigonometry and analytic geometry. Recommended only for students intending to enroll in the 263 calculus sequence.

**117 Elementary Applied Mathematics (4) (1M)**  
Prereq: placement level 1. Topics from intermediate algebra such as functions and graphs, systems of linear equations, 3x3 determinants, factoring, quadratic equations and inequalities, exponents and radicals, and logarithms. Available by correspondence and on some regional campuses. Students cannot earn credit for both this course and 113.

**118 Elementary Applied Mathematics (4) (1M)**

Prereq: 117 or placement level 1. Topics from trigonometry and analytic geometry including trigonometric functions and their graphs, vectors and oblique triangles, trigonometric identities, j-operator, straight lines, conic sections, and translation of axes. Available by correspondence and on some regional campuses. Students cannot earn credit for both 118 and any of: 115, 116, or 130.

**120 Elementary Topics in Mathematics (4) (1M)**

Prereq: placement level 1. 120-121-122 is a sequence for majors in elementary education and related fields. Emphasis of 120 is on number systems and related properties. 121 and 122 focus on topics related to elementary curriculum including geometry, algebra, statistics, and probability. Satisfies Tier I requirement for elementary education majors only. Does not apply to Arts and Sciences natural science requirements.

**121 Elementary Topics in Mathematics (4) (1M)**

Prereq: 120. Continuation of 120. Does not apply to Arts and Sciences natural science requirements.

**122 Elementary Topics in Mathematics (3) (1M)**

Prereq: 121. Continuation of 120-121. Does not apply to Arts and Sciences natural science requirements.

**147 Introductory Game Theory (4) (1M)**

Prereq: 101 or placement level 1. The course introduces mathematical models for situations of conflict, whether actual or recreational. Topics include matrix representation of games, two-person and n-person games, zero and non-zero-sum games, Nash equilibria, cooperation and the prisoner's dilemma. Application to topics such as warfare, business decisions, football, environmental policy, evolution, voting, and poker will be considered.

**150 Finite Mathematics (4) (1M)**

Prereq: 113 or placement level 2. (formerly 250A) Set theory; logic; vectors and matrices; linear programming.

**163A Introduction to Calculus (4) (2N)**

Prereq: 113 or placement level 2. Presents a survey of basic concepts of calculus. For students who want an introduction to calculus, but do not need the depth of 263A-B-C. Note: Students cannot earn credit for both 163A and either of 263A or 266A.

**163B Introduction to Calculus (3) (2N)**

Prereq: 163A. Continuation of 163A. Note: Students cannot earn credit for both 163B and either of 263B or 266B.

**211 Elementary Linear Algebra (4) (1M)**

Prereq: 115 or placement level 2. Solutions to linear systems, matrices and matrix algebra, determinants, n-dimensional real vector spaces and subspaces, bases and dimension, linear mappings, matrices of linear mappings, eigenvalues and eigenvectors, diagonalization. Emphasis is on techniques and computational skills. No credit to students who have completed 410 or 411.

**250 Introduction to Probability and Statistics I (4) (1M)**

Prereq: 113 or placement level 2. (formerly 250B) Organization of data, central tendency and dispersion, probability, concept of random variables, binomial and normal probability distributions. No credit for 250 if already credit for 450A, PSY 120, PSY 121, PSY 221, ISE 304, or ISE 305.

**251 Introduction to Probability and Statistics II (4) (1M)**

Prereq: 250. Estimation, testing hypotheses, linear regression and correlation, and analysis of variance. Students in business administration should enroll in more specialized QBA 201. No credit for 251 if already credit for 450B, QBA 201, PSY 121, PSY 221, or ISE 306.

NOTE: It is strongly recommended that students who earn less than a 2.0 in any course in the 263 calculus sequence retake that course before progressing in the sequence.

### 263A Calculus I (4) (2N)

Prereq: 115 or placement level 3. Limits and differentiation, including trigonometric functions. Applications of the derivative. NOTE: Students cannot earn credit for both 263A and either of 163A or 266A.

### 263B Calculus II (4) (2N)

Prereq: 263A or 266A. Integration, logarithmic, exponential, and other transcendental functions; indeterminate forms, improper integrals, and techniques of integration. NOTE: Students cannot earn credit for both 263B and either 163B or 266B.

### 263C Calculus III (4) (2N)

Prereq: 263B or 266B. Continuation of 263A-B. Parametric equations, polar coordinates, infinite series, and vectors.

### 263D Calculus IV (4)

Prereq: 263C. Continuation of 263A-B-C. Multidimensional topics, partial differentiation, multiple integrals.

### 266A Calculus with Applications to Biology I (4) (2N)

Prereq: 115 or placement level 3. Introduction to dynamical systems, limits, and derivatives in the context of biological applications. Students cannot earn credit for both 266A and either of 163A or 263A.

### 266B Calculus with Applications to Biology II (4) (2N)

Prereq: 266A. Continuation of 266A. Integral calculus and the analysis of differential equations in the context of biological applications. No credit for 266B if already credit for 163B or 263B.

### 297T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

### 298T Mathematics Tutorial (1-15)

Prereq: 297T. (winter) Continuation of 297T. See 297T for description.

### 299T Mathematics Tutorial (1-15)

Prereq: 298T. (spring) Continuation of 297T and 298T. See 297T for description.

### 300 History of Mathematics (4)

Prereq: math major, jr or sr. Survey of main lines of mathematical development in terms of contributions made by great mathematicians.

NOTE: The following four courses (306, 307, 314, 330) are primarily intended for prospective mathematics majors to introduce them to mathematical theory at an elementary level.

### 306 Foundations of Mathematics I (4)

Prereq: 263A or 163B. An introduction to mathematical thinking and formal proofs. Topics include sets, relations, and functions.

### 307 Introduction to Number Theory (4)

Prereq: 306. Investigation of properties of natural numbers. Topics include mathematical induction, prime factorization, Euclidean algorithm, Diophantine equations, congruences, and divisibility.

### 314 Elementary Abstract Algebra (4)

Prereq: 306. Mappings, relations, definitions, and examples of groups, groups of rotations, cyclic groups, Lagrange's Theorem, fields, polynomials over fields.

### 320L Teaching of Mathematics in Secondary School (5)

Prereq: 211, 330B, and jr. Orientation to professional mathematics education and topics related to teaching of mathematics on secondary school level. Not counted toward math major or minor.

### 330A Foundations of Geometry (4)

Prereq: 306. Introduction to axiomatic mathematics via 2 finite geometries and variety

of interpretive models. Develops plane Euclidean and non-Euclidean geometries in rigorous fashion from axiomatic approach.

### 330B Foundations of Geometry (4)

Prereq: 330A. Continuation of 330A. See 330A for description.

### 333 Elementary Projective Geometry (4)

Prereq: 330 or perm. Topics in projective geometry.

### 340 Differential Equations (4)

Prereq: 263C. Ordinary differential equations and related topics.

### 343 Mathematical Modeling (4)

Prereq: 250, and 163B or 263B. Construction and analysis of mathematical models and their use in investigation of physical, chemical, geological, social, and environmental problems. Models which use only elementary mathematical concepts stressed.

### 344 Numerical Methods for Civil Engineers (4)

Prereq: 340 and Civil Engr major (BS7252). The fundamentals of numerical methods for civil engineering students. Topics include: approximation and interpolation, numerical solution to equations, numerical differentiation and integration, numerical solutions to differential equations, solutions of systems of equations, and finding eigenvalues. The topics will be posed in a setting of problems intended for civil engineering students using MATLAB.

### 360 Intermediate Analysis (4)

Prereq: 263D and 306, or perm. Rigorous study of limits, continuity, and differentiability of functions of 1 real variable.

### 397T Mathematics Tutorial (1-15)

(fall) Special program for students of unusual ability.

### 398T Mathematics Tutorial (1-15)

Prereq: 397T. (winter) Continuation of 397T. See 397T for description.

### 399T Mathematics Tutorial (1-15)

Prereq: 398T. (spring) Continuation of 397T and 398T. See 397T for description.

### 406 Foundations of Mathematics II (4)

Prereq: 306. Introductory topics in set theory and axiomatic development of real number system.

### 407 Number Theory (4)

Prereq: 307, 263C. Topics in number theory.

### 410 Matrix Theory (4)

Prereq: 263D. Matrix algebra, determinants, solutions of linear systems, eigenvalues and eigenvectors, matrix functions and applications to differential equations, Jordan canonical form, inner products diagonalization and generalized inverses. Intended primarily for students interested in applied mathematics, engineering, and sciences.

### 411 Linear Algebra (4)

Prereq: 306. (fall) Vector spaces and linear transformations, characteristic values, quadratic forms, dual spaces, normal forms, and Jordan canonical form.

### 412 Introduction to Algebraic Coding Theory (4)

Prereq: 211 or 410. Encoding and decoding for error correction. Linear codes over finite fields and syndrome decoding. Cyclic codes, Hamming codes, BCH and Reed-Solomon codes.

### 413 Introduction to Modern Algebra (4)

Prereq: 314 or 411. (winter) Groups, permutation groups, subgroups, normal subgroups, quotient groups. Conjugate classes and class equation formula and its applications to p-groups. Fundamental theorem on homomorphisms.

### 413B Introduction to Modern Algebra (4)

Prereq: 413A. (spring) Fundamental theorem on finite abelian groups and its consequences. Cauchy theorem and first Sylow theorem. Polynomial rings. UFD and Euclidean domains.

Maximal ideals. Algebraic extensions and splitting fields. Fundamental theorem of Galois theory.

### 439 Topics in Geometry (1-5, max 10)

Prereq: perm. When demand is sufficient, course in some phase of geometry will be offered under this number.

### 440 Vector Analysis (4)

Prereq: 263D. Vector algebra and its applications. Vector calculus and space curves. Scalar and vector fields, gradient, divergence, curl, and Laplacian. Line and surface integrals. Divergence theorem. Stoke's theorem, and Green's theorem.

### 441 Fourier Analysis and Partial Differential Equations (4)

Prereq: 340 and 263D. Representation of functions as sums of infinite series of trigonometric functions, Bessel functions, Legendre polynomials, or other sets of orthogonal functions. Use of such representations for solution of partial differential equations dealing with vibrations, heat flow, and other physical problems.

### 442 Theory of Linear and Nonlinear Programming (4)

Prereq: 211 or 410, and 263D; computer programming experience is desirable. Minimization of functions subject to equality and inequality constraints, Kuhn-Tucker theorem, algorithms for function minimization, such as steepest descent and conjugate gradient and penalty function methods. (Not a course in computer programming.)

### 443 Mathematical Modeling and Optimization (4)

Prereq: 263D, 340, 211 or 410. Investigation of differential equation and/or discrete optimization models of physical, social, biological phenomena and large economic systems by qualitative analysis. Optimal criteria incorporated to convert models to optimal control problems. Pontryagin's maximal principle used to find analytic solutions. Numerical solutions to optimal control problems also treated. Discrete optimization includes topics from linear and integer programming, network algorithms and their analysis.

### 444 Introduction to Numerical Analysis (4)

Prereq: 263D, 340, and CS210 or CS 220. Polynomial interpolation and approximation; numerical integration and differentiation; numerical solution to differential equations; numerical methods for matrix inversion, determination of eigenvalues, and solutions of systems of equations.

### 445 Advanced Numerical Methods (4)

Prereq: 441, 444. (winter) Numerical methods for solutions of ordinary and partial differential equations (credit for only 1 of 445 or ET 445).

### 446 Numerical Linear Algebra (4)

Prereq: 410 and CS210 or CS 220 or equiv. Floating point arithmetic, numerical solution of systems of linear equations using Gaussian elimination and its variants, numerical techniques for eigenvalues, error analysis, and implementation of algorithms on computer.

### 449 Advanced Differential Equations (4)

Prereq: 340, and 410 or 411. Introduction to theory of ordinary differential equations with special attention to oscillation, plane autonomous systems, Liapunov theory, and quadratic functionals.

### 450A Theory of Statistics (4)

Prereq: 263D. (fall) Topics in the 450A-B-C sequence include probability distributions of one and several random variables, conditional probability and independence, expectation and variance, moment generating functions, the central limit theorem, sampling theory, estimation, testing hypotheses, regression and correlation, and analysis of variance.

### 450B Theory of Statistics (4)

Prereq: 450A. (winter) Continuation of 450A. See 450A for description.

**450C Theory of Statistics (4)**

Prereq: 450B. (spring) Continuation of 450A-B. See 450A for description.

**451 Stochastic Processes (4)**

Prereq: 450B. Markov chains, Poisson process, birth and death process, queuing, and related topics.

**452 Statistical Computing (4)**

Prereq: 450B. Introduction to computational statistics; Monte Carlo methods, bootstrap, data partitioning methods, EM algorithm, probability density estimation, Markov Chain Monte Carlo methods.

**455 Basic Principles of Actuarial Science (4)**

Prereq: 450A. Basic concepts of risk theory and utility theory, applied calculus and probability models for the analysis of claims, frequency and severity of distributions, loss distributions, premium determination, insurance with deductible, reinsurance and self-insurance.

**456 Theory of Interest and Life Contingencies (4)**

Prereq: 450A. Theory of interest and contingent payment models. Mathematical models for the actuarial present value of a future set of payments contingent on some random event(s); life insurance, life annuities, benefit reserves.

**460A Advanced Calculus (4)**

Prereq: 360. (fall) Critical treatment of functions of one or several variables. Topics in the 460A-B-C sequence include the basic topological features of Euclidean spaces, a careful study of limits and continuity, Riemann-Stieltjes integration, uniform convergence, and multidimensional differentiation and integration.

**460B Advanced Calculus (4)**

Prereq: 460A. (winter) Continuation of 460A. See 460A for description.

**460C Advanced Calculus (4)**

Prereq: 460B. (spring) Continuation of 460A-B. See 460A for description.

**470 Complex Variables (4)**

Prereq: 263D. Analytic and harmonic functions. Cauchy integral and residue theorems, contour integration, Taylor and Laurent expansions, conformality, and linear transformations with applications.

**480A Elementary Point Set Topology (4)**

Prereq: 360. (winter) Topology of Euclidean spaces and general metric spaces.

**480B Elementary Point Set Topology (4)**

Prereq: 480A. (spring) Introduction to general topological spaces.

**486 Introduction to Bioinformatics (4)**

Prereq: grade of 2.0 or better in 263B or 266B. Major topics and techniques in bioinformatics, including homology searches, sequence alignment, gene finding, phylogenetic trees. The course combines biological, computational, and statistical approaches to the extraction of information from large sets of biomolecular data.

**490 Selected Topics in Mathematics (1-5)**

Prereq: perm of instructor and chair. When demand is sufficient, course in some phase of mathematics will be offered under this number. (May be repeated for credit.)

**491 Studies in Mathematics (1-15)**

Prereq: 6 hrs of 400-level courses, sr or jr in Honors Tutorial College, or perm of chair and instructor. Selected topics in mathematics studied under guidance of instructor particularly interested in field. (May be repeated for credit.)

**497T Mathematics Tutorial (1-15)**

(fall) Special program for students of unusual ability.

**498T Mathematics Tutorial (1-15)**

Prereq: 497T. (winter) Continuation of 497T. See 497T for description.

**499T Mathematics Tutorial (1-15)**

Prereq: 498T. (spring) Continuation of 497T and 498T. See 497T for description.

## Medical Assisting Technology (MAT)

The following courses for the A.A.S. in medical assisting technology are available only on the Lancaster campus:

**101 Introduction to Medical Assisting (2)**

Introduction to the career of medical assisting. Roles and responsibilities of a medical assistant; overview of the health care profession; and the safety, liability, professional, and interpersonal relationships necessary in the medical field.

**140 Medical Terminology for the Medical Assistant (3)**

Understanding and usage of medical terms used in the allied-health field. Emphasis is on the spelling of, definition of, and creation of medical terms through the understanding of prefixes, suffixes, and root words. Terminology learned through body system knowledge. Credit cannot be earned for both 140 and OTEC 141M.

**150 Medical Transcription and the Medical Assistant (3)**

Prereq: 140 or concurrent, OTEC 121. Application of medical transcription rules to typical medical documents, including those used in both hospitals and ambulatory-care settings. Covers proper use and correct spelling of medical terminology, as well as increased production of documents.

**170 Administrative Medical Assisting (4)**

Prereq: 101, OTEC 121. Introduction to the medical office and current administrative practices. Topics include confidentiality and the daily practices of the medical assistant.

**201 Clinical Techniques (4)**

Prereq: 101, BIOS 103. Introduction to medical laboratory theory and practice in preparation for physical examination. Patient and exam room preparation, vital sign tests, taking health histories, aseptic techniques, infection control, and universal precautions are studied. 3 lec, 2 lab.

**202 Clinical Techniques II (4)**

Prereq: 201. Theory and practice in minor hematology, laboratory tests, urinalysis, administering medications, pharmacology, and venipuncture. Covers documentation and government regulations, and the processes of sterilization, quality control, and vision and blood testing. 2 lec, 4 lab.

**203 Clinical Techniques III (4)**

Prereq: 202. Theory and practice in assisting with minor office surgery, office procedures, and diagnostic procedures. Operation, maintenance, and inventory control of equipment and supplies required of a medical assistant. 2 lec, 4 lab.

**210 Law and Ethics for Medical Assisting (2)**

Prereq: 101. Introduction to the law and ethics as they apply to allied health fields. Topics include practicing in a medical office, professional liability and medical malpractice, medical records and informed consent, medical ethics, documentation and reporting, and licenses and accreditation.

**230 Insurance Billing and Coding for the Medical Assistant (4)**

Prereq: 140, 170. Theory and application of skills necessary to process insurance forms in the health care setting. Covers major nationwide medical insurance programs and extensive study and use of ICD-9-CM and CPT coding.

**250 Computerized Office Procedures for the Medical Assistant (4)**

Prereq: 170, 230. Theory and application of skills necessary to manage administrative duties in a medical office. Emphasis is on computer applications and tasks such as scheduling and billing.

**290 Special Topics (1-5, max 5)**

Prereq: 101. Special topics current and relevant to the medical assisting field.

**291 Independent Study (1-5, max 5)**

Prereq: 101. Independent study of a particular topic pertinent to medical assisting under the direction of a faculty member.

**295 Externship (3)**

Prereq: 203. Practical experience as a medical assistant in a supervised unpaid clinical experience. Student performs administrative and clinical procedures and develops professional attitudes. Student works 21 hours per week each week during the quarter enrolled.

## Medical Technology

See Preparation for Clinical Laboratory Science under Arts and Sciences or Biological Sciences under Courses of Instruction.

## Microbiology

See Biological Sciences.

## Military Science (MSC)

**Army ROTC**

The Department of Military Science offers a program of instruction leading to a commission as a second lieutenant in the United States Army, the United States Army Reserve, or the Army National Guard. Military science is an elective program open to both men and women who are citizens of the United States.

The four-year program consists of a basic course and an advanced course. The basic course requires successful completion of military science 100- and 200-level courses during the freshman and sophomore years. The advanced course requires successful completion of military science 300- and 400-level courses during the last two academic years. During both the basic course and the advanced course, you must attend a leadership lab for two hours each week in addition to the hours of classroom instruction each week. Advanced course students must also attend a 32-day summer training camp. (See MSC 330.)

No military obligation is incurred for the first two years of the four-year program. Following completion of the basic course, qualified students are accepted for the advanced course by entering a ROTC contract which obligates them to complete the program of instruction and accept a commission in the U.S. Army, U.S. Army Reserve, or the Army National Guard. Advanced course students receive a subsistence allowance of up to \$400 for each academic month of enrollment, not to exceed two years.

The two-year program is offered for students who transfer from colleges that do not offer ROTC or whose academic course load did not permit military science during their first two years. Students qualify for the two-year program in one of several ways. The first is by attending Army ROTC Leaders Training Course (see MSC 230). Upon successful completion of camp, you may enter the advanced course. Attending Leaders Training Camp does not require you to continue in the program, nor does it incur any military obligation. The second is by receiving credit for honorable prior military service of at least one year, as determined by the professor of military science. Additionally, you may receive credit for two or more years of junior ROTC at the high school level. After receiving credit for the basic course, you proceed with the advanced course as previously described. Other options are available for selected situations or circumstances.

**Regional Campus Students** can participate in the two-year program by attending advanced courses at the Athens campus.



**101 Fundamental Military Leadership Concepts (1)**

Prereq: fr or soph. (fall) Broad overview of the Army as an institution of the U.S. government. Introductory course to the Army's Reserve Officer Training Corps (ROTC) and overview of the curriculum that can lead to a commission as a second lieutenant in the U.S. Army. Increases self-confidence through activities in basic drill, physical fitness, rappelling, and firing the M-16 rifle. Teaches fundamental concepts of leadership in a profession in both classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and one weekend exercise.

**102 Fundamental Military Concepts and Basic Leadership I (1)**

Prereq: fr or soph. (winter) Provides an understanding of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops communication and leadership skills to improve individual performance and group interaction. Reinforces self-confidence through participation in basic drill, physical fitness, and a water survival exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

**103 Basic Military Leadership II (1)**

Prereq: fr or soph. (spring) Continuation of selected basic soldier skills that are essential to the Army's ability to win on the modern battlefield. Develops skills to navigate on the ground by understanding map reading. Reinforces self-confidence through participation in basic drill, physical fitness, rappelling, and a land navigation exercise. Provides hands-on training of basic individual skills both in the classroom and outdoor laboratory environment. 1 hr and a required 2-hr lab, 110L, plus optional participation in a 1-hr session for physical fitness and a weekend exercise.

**110L Leadership Laboratory (1)**

Prereq: Concurrent with 101, 102, 103. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

**201 Advanced Military Leadership (2)**

Prereq: fr or soph. (fall) Continues basic skills by applying teamwork as a small group. Teaches the fundamentals of land navigation and basic life-saving techniques. Enhances survival awareness through lectures, films, and participation. Includes a one-day orienteering course, which occurs on a weekend during the quarter. 2-hr-a-week course with a required Leadership Lab, MSC 201L, one day a week. The course also includes rappelling and rifle familiarization, which may not occur during inclement weather.

**202 Military Leadership, Tactics, and Officership (2)**

Prereq: fr or soph. (winter) Uses ethics-based leadership skills to develop individual abilities and contribute to the building of effective teams of people. Develops skills in oral presentations and military correspondence. Presents the fundamentals of military leadership and their application to team development. Teaches the basic duties of the commissioned and noncommissioned officer. This course is a 2-hr-a-week course with a required Leadership Lab, MSC 202L, once a week.

**203A Military Tactics and Officership II (2)**

Prereq: fr or soph. (spring) Introduction to individual and team development of military tactics in small unit operations. Includes use of radio communications, movement techniques, issue and operation order, security, and troop leading procedures. Teaches techniques for training others as an aspect of continued leadership development. This course is a 2-hr-a-week course with a required Leadership Lab, MSC

203L, one day a week. Includes rappelling and rifle familiarization, which may not occur during inclement weather.

**210L Leadership Laboratory (1)**

Prereq: Concurrent with 201, 202, 203. Provides additional skills and hands-on experiences and allows the student to practice what was taught in the classroom. Offers insight into a military organization and builds self-confidence and team-building skills.

**230 Leaders Training Course (4)**

28-day summer off-campus training program that qualifies students for direct entry to advanced ROTC course. Transportation to and from camp, uniforms, meals, and housing paid for by Army.

**301 Small Unit Leadership (3)**

Prereq: perm. Study of basic leadership principles, the Army decision-making process, small unit tactics, and required individual skills. Course includes intrinsic leadership practical exercises. A 2-hr-a-week lab, three 1-hr sessions of physical training a week, and a required weekend field training exercise are required parts of the course.

**302 Small Unit Leadership and Operations (3)**

Prereq: 301. Continuation of 301 developing from squad to platoon level organization and tactics, as well as an increased complexity in leadership positions. Labs, physical training, and a field training exercise are required as part of the course.

**303 Small Unit Operations (3)**

Prereq: 302. Continuation of PLT level operations with an increased emphasis on the dynamics of leadership to include the ethical decision-making process and the laws of war. The course also makes final preparations for the student to attend their summer training. Labs, physical training, and a field training exercise are required as part of the course.

**310A Advanced Leadership Laboratory (1)**

Prereq: enrollment in 301. (fall) Designed to allow you to actually practice what is taught in the classroom by using a hands-on approach.

**310B Advanced Leadership Laboratory (1)**

Prereq: enrollment in 302. Continuation of 310A. See 310A for description.

**310C Advanced Leadership Laboratory (1)**

Prereq: enrollment in 303. (spring) Continuation of 310A-B. See 310A for description.

**330 National Advanced Leadership Camp (4)**

Prereq: 303. 32-day field training session conducted at Ft. Lewis, Washington. Exposure to barracks life and daily leadership activities of future commissioned officers in field and garrison. Transportation to and from camp, uniforms, meals, and lodging paid for by the Army.

**401 Military Leadership, Management, and Ethics (3)**

Prereq: 303. Provides opportunity to plan, conduct, and evaluate activities of the Army cadet organization. Assess organizational cohesion and develop strategies to improve it. Develop confidence in skills to lead people, manage resources, and plan and execute complex small-organization operations. Teaches application of various Army policies and programs. Two hours and a required Leadership Lab, MSC 410, plus participation in three 1-hr sessions for personal and organizational physical fitness.

**402 Military Leadership, Management, Ethics, and Law (3)**

Prereq: 401. Continuation of 401. Increased emphasis on critical thinking skills and ability to quickly identify and resolve complex leadership issues.

**403 Transition from Cadet to Lieutenant (3)**

Prereq: 402. (spring) U.S. in contemporary world scene. Includes study of other major factors in the world arena.

**410A Advanced Leadership Laboratory (1)**

Prereq: enrollment in 401. (fall) Allows you to plan and conduct training events such as drill and ceremony and land navigation.

**410B Advanced Leadership Laboratory (1)**

Prereq: enrollment in 402. (winter) See 410A for description.

**410C Advanced Leadership Laboratory (1)**

Prereq: enrollment in 403. (spring) See 410A for description.

**490 Special Problems (1-5, max 15)**

Prereq: perm. Provides continuing military education on individual basis. Provides advanced and specialized training depending upon needs of individual and department.

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**Music (MUS)****Applied Music**

Fee for private instruction registration for all applied music (piano, voice, organ, strings, woodwind, brass, percussion) is \$100 (MUS 340-358).

Fees for class voice, piano, guitar, and all instrumental methods courses are \$25. (MUS 141A, 142A, 143A, 147A, 148A, 149A, 165A, 166A, 182, 261 A-B, and 263 A-K)

Fees for music computer courses are \$40 (MUS 178 and 178A)

Note: A description of the proficiency requirements for applied music may be obtained from the School of Music.

**090 Performance Laboratory (0)**

Required of all undergraduate music majors.

**141 Class Piano (2)**

Prereq: music major.

**141A Class Piano (2)**

Prereq: nonmusic major. *Cremaschi*.

**142 Class Piano (2)**

Prereq: 141, music major. Continuation of 141.

**142A Class Piano (2)**

Prereq: 141A, nonmusic major. *Cremaschi*. Continuation of 141A.

**143 Class Piano (2)**

Prereq: perm, 142, music major. Continuation of 141 and 142.

**143A Class Piano (2)**

Prereq: 142A, nonmusic major. A. *Cremaschi*. Continuation of 142A.

**147 Class Voice (2)**

Prereq: music major. For students enrolling in beginning voice.

**147A Class Voice (2)**

Prereq: nonmusic major. Beginning instruction in voice for nonmusic majors.

**148 Class Voice (2)**

Prereq: 147. Continuation of 147.

**148A Class Voice (2)**

Prereq: 147A, nonmusic major. (winter) Continuation of 147A.

**149 Class Voice (2)**

Prereq: 148. Continuation of 148.

**149A Class Voice (2)**

Prereq: 148A, nonmusic major. (spring) Continuation of 148A.

**165 Class Folk Guitar (2)**

Prereq: music major. S. Boyle. Introduction to guitar fundamentals including the playing of chords and melodies using varied systems of notation, basic strumming and finger-picking techniques, and tuning. Skill development in the use of guitar in vocal accompaniment and early solo work.

**165A Class Folk Guitar (2)**

Prereq: nonmusic major. See 165 for further description.

**166 Class Folk Guitar (2)**

Prereq: 165. Continuation of 165.

**166A Class Folk Guitar (2)**

Prereq: 165A. S.Boyle. Continuation of 165A.

**241 Class Piano (2)**

Prereq: music major, 143 with minimum grade of C, or perm.

**242 Class Piano (2)**

Prereq: 241, music major. Continuation of 241.

**243 Class Piano (2)**

Prereq: 242, music major. Continuation of 241 and 242.

**244D Communiversity Band (2)**

Prereq: audition. A wide variety of music literature, including marches, overtures, and musicals is studied and performed both on and off campus under both a permanent and guest conductor.

**251A Marching Band (2)**

Prereq: audition. R. Suk.

**251B Wind Ensemble (2)**

Prereq: audition. J. Climer.

**251C University Band (1)**

Prereq: audition. R. Suk.

**251D Varsity Band (1)**

Prereq: audition. R. Suk.

**251E Concert Band (1)**

Prereq: audition. R. Suk.

**252A Symphony Orchestra (2)**

Prereq: audition. A. Gearge.

**252B Chamber Orchestra (1)**

Prereq: audition.

**253A University Singers (2)**

Prereq: audition. P. Jarjisian.

**253B Choral Union (1)**

Prereq: audition. P. Jarjisian.

**253C Opera Theater (1-4)**

Prereq: audition. W. Mouat.

**253D The Singing Men of Ohio (1)**

Prereq: audition. R. Feener.

**253E Women's Chorale (1)**

Prereq: audition. P. Jarjisian

**254A Chamber Music, Strings (1)**

Prereq: strings. Participation in playing of standard string chamber literature.

**254B Chamber Music, Woodwinds (1)**

Participation in playing of standard woodwind chamber literature.

**254C Chamber Music, Brass (1)**

Participation in playing of standard brass chamber literature.

**254D Chamber Music, Percussion (1)**

Participation in playing of standard percussion chamber literature.

**254E Chamber Music, Contemporary (1)**

New music ensemble. Participation in performing contemporary chamber music for various ensembles of instruments and voices.

**254F Chamber Music, Piano (1)**

Participation in playing of standard piano chamber literature.

**255A Jazz Ensemble (1)**

Prereq: audition. M. James.

**255B Percussion Ensemble (1)**

R. Braun.

**255C Trombone Choir (1)**

C. Hayes.

**340 Voice (1-4)**

Prereq: music major. W. Mouat, S. Mouat, P. Pease, R. Feener, W. Mouat.

**341 Piano (1-4)**

Prereq: music major. G. Berenson, S. Henry, R. Syracuse.

**343 Organ (1-4)**

P. Barte.

**343A Harpsichord (1-4)**

P. Barte.

**344 Violin (1-4)**

M. Bagley

**345 Viola (1-4)**

Staff

**346 Violoncello (1-4)**

M. Carrera

**347 Double Bass (1-4)**

D. Messina.

**348 Flute (1-4)**

A. Brown.

**349 Oboe (1-4)**

D. Conaty.

**350 Bassoon (1-4)**

E. Stomberg.

**351 Clarinet (1-4)**

R. Rischin.

**352 Saxophone (1-4)**

M. James.

**353 Trumpet (1-4)**

J. Schlabach.

**354 Horn (1-4)**

S. Smith.

**355 Euphonium (1-4)**

J. Smith.

**356 Trombone (1-4)**

C. Hayes.

**357 Tuba (1-4)**

J. Smith.

**358 Percussion (1-4)**

R. Braun

**359 Class Piano (2)**

Prereq: 243 with minimum grade of C, and 103.

**360 Class Piano (2)**

Prereq: 359.

**361 Class Piano (2)**

Prereq: 360.

**370 Practicum in Music (1-2, max 12)**

Provides practical experiences such as supervised private and/or small group teaching, seminars in instrument repair, small touring ensembles, and pit orchestra performance. May be repeated.

**372 Advanced Functional Skills (2)**

Prereq: jr in piano. (fall) Instruction to provide greater facility in handling basic functional keyboard skills. Emphasis on transferring these skills to actual situations encountered as music educators and/or music therapists.

**375A English Diction for Singers (1)**

Stresses using vocal repertoire, correct pronunciation for singing.

**375B Italian Diction for Singers (1)**

Prereq: ITAL 111. See 375A for description.

**375C German Diction for Singers (1)**

Prereq: GER 111. See 375A for description.

**375D French Diction for Singers (1)**

Prereq: FRN 111. See 375A for description.

**377A Jazz Improvisation I (2)**

Prereq: C or better in 103. *Bastin*. Learning and applying through improvisation the Ionian, Dorian, and Mixolydian modes, the ii-V7-I

progression, and culminating with a final project utilizing the song form.

**377B Jazz improvisation II (2)**

Prereq: C or better in 377A. *Bastin*. Learning and applying through improvisation the whole tone, diminished and blues scales, the Aeolian and Locrian modes, the ii-V7-I progression, and culminating with a final project utilizing blues form.

**379 Performance Preparation (2)**

Assistance in developing strategies for preparing physically and psychologically to achieve maximum potential in musical performance.

**450 Accompanying (1, max 3)**

Basic problems in accompanying vocalists and instrumentalists—rehearsal techniques, ensemble, pedaling, balance, etc. May be repeated.

**455 Basic Conducting (3)**

Prereq: 203, 205. P. Jarjisian, J. Climer. Basic beat patterns, technique of baton, and use of left hand. Experience in conducting choral and small instrumental ensembles in works suitable for school groups.

**456A Instrumental Conducting (3)**

Prereq: 205, 455. J. Climer. Experience in conducting from full score; includes band and orchestral works suitable for high school groups.

**456B Choral Conducting (3)**

Prereq: 205, 455. P. Jarjisian. Specialized conducting techniques for choral groups, including experience in conducting works suitable for high school and college groups.

**457A Solo Repertoire of String Instruments (1)**

Prereq: 323. Survey of student's major performance instrument literature.

**457B Solo Repertoire of Woodwind Instruments (1)**

Prereq: 323. See 457A for description.

**457C Solo Repertoire of Brass Instruments (1)**

Prereq: 323. See 457A for description.

**457D Solo Repertoire of Vocal Music (1)**

Prereq: 323. See 457A for description.

**457F Solo Repertoire of Percussion Instruments (1)**

Prereq: 323. See 457A for description.

**457G Early Keyboard Repertoire, 1600 through 1750 (2)**

Prereq: 125. A comprehensive study of the keyboard repertoire from 1600 through 1750, including major works of Baroque composers.

**457K Classical and Romantic Piano Repertoire (2)**

Prereq: 125. A comprehensive study of the piano repertoire from 1750 through 1900, including major works of classical and romantic composers.

**457L Twentieth Century Piano Repertoire (2)**

Prereq: 125. Twentieth century piano repertoire beginning with works from the Impressionistic Period and including major works of composers to the present.

**458A String Instrument Pedagogy (2)**

Teaching techniques and use of selected materials for various levels of ability. Includes practical experience in teaching string instruments.

**458B Woodwind Instrument Pedagogy (2)**

See 458A for description—woodwind instruments.

**458C Brass Instrument Pedagogy (2)**

See 458A for description—brass instruments.

**458D Vocal Pedagogy (2)**

See 458A for description—voice.

**458E Class Piano Pedagogy (2)**

M. Stewart. Practical teaching techniques unique to class piano instruction, particularly in



electronic lab. Examination of useful materials for various levels of ability. Includes some experience in classroom teaching.

**458F Percussion Instruments Pedagogy (2)**  
See 458A for description—percussion instruments.

**458G Piano Pedagogy (2)**  
(fall) G. Berenson. Provides creative teaching strategies for piano teacher. Teaching philosophies, objectives, and procedures discussed and applied to group and private piano instruction. Includes teaching techniques for working with students of all ages and levels.

**458H Piano Pedagogy (2)**  
(winter) G. Berenson. Continuation of 458G. See 458G for description.

**458I Piano Pedagogy (2)**  
(spring) G. Berenson. Continuation of 458G and 458H. See 458G for description.

**459A Instrumental Conducting II (3)**  
Prereq: 456A. J. Climer.

**459B Choral Conducting II (3)**  
Prereq: 456B. P. Jarjisian.

**497 Recital (1-2)**

## Music Education

**160 Music Fundamentals (3)**  
For elementary education majors only. Reviews the fundamentals of music with piano applications.

**161 Music for the Classroom Teacher (3)**  
Prereq: 160 with minimum grade of C. Methods of teaching elementary music. For elementary education majors only.

**163 Introduction to Music Education (2)**  
Introduction of major components of music teaching in elementary and secondary schools.

**261A Upper Strings Methods and Materials (2)**

Prereq: soph in music education/music therapy. Instruction in upper stringed instruments with emphasis on teaching techniques, methods, and materials.

**261B Lower Strings Methods and Materials (2)**

Prereq: soph in music education/music therapy. Instruction in lower stringed instruments with emphasis on teaching techniques, methods, and materials.

**262 Music in Early Childhood (3)**  
Methods and materials for aesthetic development of preschool children. Exploration of reading readiness and vocal, rhythmic, listening activities.

**263A Percussion Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in percussion instruments with emphasis on teaching techniques, methods, and materials.

**263E Trumpet Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in trumpet with emphasis on teaching techniques, methods, and materials.

**263F Horn/Trombone Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in horn and trombone with emphasis on teaching techniques, methods, and materials.

**263G Euphonium/Tuba Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in euphonium and tuba with emphasis on teaching techniques, methods, and materials.

**263H Flute/Saxophone Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in flute and saxophone with emphasis on teaching techniques, methods, and materials.

**263I Clarinet Methods and Materials (2)**  
Prereq: soph in music education/music therapy. Instruction in clarinet with emphasis on teaching techniques, methods, and materials.

**263K Double Reed Methods and Materials (2)**

Prereq: soph in music education/music therapy. Instruction in double reed instruments with emphasis on teaching techniques, methods, and materials.

**362 Teaching Instrumental Music in the Elementary and Middle School (3)**

Prereq: jr standing in music education. A study of procedures for planning, implementing, administering, and evaluating instrumental music programs in elementary and middle schools. Also included is a survey of appropriate teaching materials and application of current technology.

**362L Teaching Instrumental Music in the Elementary/Middle School—Laboratory Band (1, max 4)**

Prereq: jr standing in music education. Prepares the prospective instrumental music educator for competence and adequacy in executing an ensemble music rehearsal at the elementary/middle school level. Items covered include conducting, personnel, and score preparation.

**363 Secondary School Instrumental Methods and Materials (3)**

Prereq: jr standing in music education. Literature and rehearsal techniques for secondary school bands and orchestras, including administration of the high school instrumental music program.

**364 Secondary School Vocal Techniques and Materials (3)**

Prereq: jr standing in music education. (spring) Literature and rehearsal techniques for high school choral groups.

**366 Teaching of Music in the Elementary Grades (3)**

Prereq: jr standing in music education or music therapy. (fall) Materials and methods for elementary music. For music majors only.

**366A Introduction to Orff Schulwerk (2)**

Introduction to music, materials, instruments, and pedagogy used in Orff teaching.

**366B Early Childhood Music Education (3)**

Prereq: jr standing in music education. Introduces music majors to the methods and materials for teaching music to preschool children.

**464 Marching Band Techniques (2)**

Prereq: jr standing in music education. (spring) Techniques for preparation of high school and college marching band performance.

**465 Jazz Ensemble Methods (2)**

Prereq: jr standing in music education. Methods of organizing and implementing jazz ensemble programs in secondary schools. Includes survey of appropriate materials.

**468 General Music in the Junior High School (3)**

Prereq: jr standing in music education. (winter) Materials and methods; listening program; changing voice.

## Music History and Literature

**120 Exploring Musical Styles (3) (2H)**

Prereq: nonmusic major. Development of listening skills for understanding elements of musical style in historical perspective and significance of music as fine art.

**124 Language of Rock Music (3)**

Examines birth, growth, and development of rock music through its acceptance as art form with significant influence on youth culture and resulting social implications.

**125 Introduction to Music History and Literature (4) (2H)**

(fall) Survey of musical forms, styles, performance media (including jazz and non-Western) from Gregorian era to present.

**150 Viewing Performance (2)**

Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the Schools of Comparative Arts, Music, Dance, and Theater.

with a seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the performances. No credit to those with credit for CA 150, DANC 150, or THAR 150.

**321 History and Literature of Music (3)**

Prereq: 103, 125. History of music with survey of musical literature to 1600. No credit to those with credit for CA 321.

**322 History and Literature of Music (3)**

Prereq: 103, 125. History of music with survey of musical literature, 1600–1750. No credit to those with credit for CA 322.

**323 History and Literature of Music (3)**

Prereq: 322. History of music with survey of musical literature, 1750 to present. No credit to those with credit for CA 323.

**421A Literature of Choral Music (3)**

**421B Literature of Piano Music (3)**

**421C Literature of Chamber Music (3)**

**421D Literature of Orchestral Music (3)**

**421E Literature of Organ Music (3)**

**421F Literature of Opera (3)**

**421G Literature of Band Music (3)**

**427 Folk Music in the United States (3)**

Introduction to selected types of folk music in U.S.

**428 Jazz History (3)**

Study of jazz styles to 1970.

## Independent Studies in Music

**414 Senior Thesis (2)**

Prereq: sr. Preparation of senior project.

**498 Independent Project (1-6)**

**499 Independent Readings in Music (1-12)**

## Music Theory and Composition

**100 Introduction to Music Theory (3) (2H)**

Prereq: nonmusic major. Introduction to staff, pitch, and rhythmic notation, chords, pop music notation, etc.

**101 Music Theory I (3)**

Prereq: music theory placement exam. Melodic, harmonic, and rhythmic principles of music and its notation. 5 days per wk.

**101A Music Theory (3)**

Prereq: nonmusic major, ability to read music. Melodic, harmonic, and rhythmic principles of music and its notation.

**102 Music Theory II (3)**

Prereq: C or better in 101. Continuation of 101. See 101 for description.

**102A Music Theory (3)**

Prereq: 101A, nonmusic major. Continuation of 101A. See 101A for description.

**103 Music Theory III (3)**

Prereq: C or better in 102. Continuation of 101 and 102. See 101 for description.

**104 Dictation and Sight Singing I (1)**

Prereq: music theory placement exam. Acquisition of skills in the aural perception and reading of melodic, harmonic, and rhythmic musical structure. Should be taken concurrently with 101.

**105 Dictation and Sight Singing II (1)**

Prereq: 104 with a minimum grade of C. Should be taken concurrently with 102. See 104 for description.

**106 Dictation and Sight Singing III (1)**

Prereq: 105 with a minimum grade of C. Should be taken concurrently with 103. See 104 for description.

**178 Computer Skills for Musicians (2)**

Provides a basic overview of computer technology and terminology and introduces various software tools specifically for musicians.

**178A Computer Skills for Musicians, Nonmajors (2)**

See 178 for description.

**179 Technology for Music Educators (2)**

Prereq: 178. Provides the prospective music educator with technology skills, knowledge of software, and methods for using technology in the music classroom.

**201 Music Theory IV (3)**

Prereq: 103 with a minimum grade of C. Harmonic and contrapuntal practices of 18th, 19th, and 20th centuries, including structural analysis of small and large forms.

**202 Music Theory V (3)**

Prereq: 201 with a minimum grade of C. Continuation of 201. See 201 for description.

**203 Music Theory VI (3)**

Prereq: 202 with a minimum grade of C. Continuation of 201 and 202. See 201 for description.

**204 Dictation and Sight Singing IV (2)**

Prereq: 106 with a minimum grade of C. Should be taken concurrently with 201.

**205 Dictation and Sight Singing V (2)**

Prereq: 204 with a minimum grade of C. Continuation of 204.

**206 Dictation and Sight Singing VI (2)**

Prereq: 205 with a minimum grade of C. Continuation of 204 and 205. See 204 for description.

**304 Instrumentation (3)**

Prereq: 203. (fall) Technical characteristics of instruments of band and orchestra. Arranging for small ensembles.

**305 Orchestration I (3)**

Prereq: 203, 304. (winter) Scoring for instrumental ensembles with emphasis on intra- and cross-choir scoring. Writing of transcriptions and score reductions.

**306 Orchestration II (3)**

Prereq: 305. (spring) Continuation of 305. See 305 for description.

**307 Choral Arranging (3)**

Prereq: 203. Arranging for standard vocal ensembles with and without accompaniment.

**308 Composition, Nonmajor (2)**

Prereq: Non-composition major; 203, 206. Introduction to 20th-century compositional techniques. Writing smaller compositions.

**309 Composition, Major (2)**

Prereq: Composition major. See 308 for description.

**402A Styles I (3)**

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of Medieval and Renaissance music.

**402B Styles II (3)**

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 19th century music.

**402C Styles III (3)**

Prereq: 203 with minimum grade of C. (offered alternate years) Analysis of 20th-century music.

**405A Jazz Theory I (3)**

Prereq: 203, 206, keyboard skills as determined by instructor. Harmonic vocabulary, notational systems, and chord progressions in traditional jazz.

**405B Jazz Theory II (3)**

Prereq: 405A. Continuation of 405A. See 405A for description.

**407A Counterpoint I (3)**

Prereq: 203, 205. (offered alternate years) Analysis and composition in sacred style of the 16th century.

**407B Counterpoint II (3)**

Prereq: 203, 205. (offered alternate years) Analysis and composition of 18th-century contrapuntal forms.

**407C Counterpoint III (3)**

Prereq: 203, 205. (offered alternate years) Continuation of 407B.

**410B Composition (2)**

Prereq: 312, electronic comp. only. Original composition in electronic medium for tape alone, live electronic instruments, or conventional instruments with electronic tape.

**413 Introduction to Electronic Music (2)**

Prereq: 102A, 141A, or music major. History, theories, techniques, and aesthetics of electronic music.

**414 Senior Thesis (2)**

Prereq: sr. Preparation of senior project.

**415 Microcomputer Applications in Music Production (3)**

Prereq: 413. Using various MIDI and digital audio applications running on microcomputers to produce a series of small projects in electronic music.

**416 Project in Electronic Music (3)**

Prereq: 415. Creating a major project using MIDI synthesizers and software and/or digital audio.

**416A Advanced Projects in Electronic Music (3)**

Prereq: approved project proposal, 416. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. An electronic music composition will be produced for public performance.

**416B Advanced Recording Studio Techniques (4)**

Prereq: 416. Instruction in operating a 16-track recording studio. Topics including advanced miking techniques, sound processing, mixing, and SMPTE time code synchronization on a 16-track recorder.

**417 Advanced Digital Synthesis (4)**

Prereq: 415. Concepts of digital sound synthesis primarily using the Synclavier system. Topics include advanced FM synthesis, additive synthesis, sampling, sequencing, and SMPTE time code synchronization on the Synclavier.

**417A Advanced Digital Synthesis and Multitrack Projects (4)**

Prereq: approved project proposal, 416B, 417. A project proposal must be submitted to and approved by the instructor prior to enrolling in this course. Supervision and guidance for working on creative electronic projects using the Synclavier and the 16-track recording studio.

**Music Therapy****180 Music Therapy Practicum I (1-2)**

Prereq: fr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

**181 Introduction to Music Therapy (3)**

(fall) Introduction to clinical practice of music therapy; clinical observation.

**182 Recreational Music Instruments and Materials (3)**

Prereq: music major. (spring) Guitar and nonsymphonic classroom instruments; special instrumental methods for disabled.

**280 Music Therapy Practicum II (1-3)**

Prereq: soph in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student.

**281 Observation, Evaluation, and Research in Music Therapy (3)**

Prereq: soph. (spring) Observation and evaluation skill development through classroom videotape, and field data collection and analysis; tests and evaluations; research methods and their application to clinical investigations. 2 lec, 1 lab.

**282 Music Therapy Activities for Classroom and Clinic (3)**

Prereq: soph. (winter) Development of skills in treatment planning and application including activity design and analysis for problems in all clinical areas.

**380 Music Therapy Practicum III (1-3)**

Prereq: jr standing in music therapy. Selected field experiences in approved clinical facilities; field evaluation of student.

**381 Psychological Foundations of Music (3)**

Prereq: jr standing in music therapy/music education. Basic study of acoustics, ear and hearing, and psycho-socio-physiological process involved in music behavior.

**382 Psychological Foundations of Music II (3)**

Prereq: 381. Theory of music therapy, survey of current literature and trends in music therapy; influence of music on behavior, physiology, emotions, learning, and work performance; experimental research required.

**480 Music Therapy Practicum IV (1-3)**

Prereq: sr in music therapy. Selected field experience in approved clinical facilities; field evaluation of student.

**481 Music Therapy Principles and Techniques I (3)**

Prereq: jr standing in music therapy. Problems of exceptional children and therapist strategies and techniques for remediation; terminology; treatment settings.

**482 Music Therapy Principles and Techniques II (3)**

Prereq: 481. Problems in psychiatry and rehabilitation; therapist strategies and techniques for remediation; terminology; treatment settings; traditional and current psycho-therapeutic and behavioral approaches.

**483 Music Therapy Principles and Techniques III (3)**

Prereq: 482. Program development process for selected clinical populations; administration of music therapy program.

**489 Clinical Training in Music Therapy (1)**

Prereq: 483. Six months as full-time music therapy intern at AMTA-approved clinical training facility following completion of sr yr.

**Nursing****Associate's Degree Program (NURS)**

The following courses for the A.A.S. in nursing are available on the Chillicothe and Zanesville campuses:

**110 Foundations of Nursing I (4)**

Prereq: admission to AD nursing program. Designed to introduce the beginning nursing student to the concepts that form the foundation of associate degree nursing. Students are introduced to nursing as a caring profession. Opportunities will be provided for the student, as a beginning nursing care provider, to develop skills in critical thinking through the application of the nursing process and in the implementation of selected nursing techniques. Emphasis will be placed on the three roles of the AD nurse as they relate to the nursing care of the adult.

**111 Foundations of Nursing II (4)**

Prereq: C or better in 110, 115, 120, 130; BIO5 130; CHEM 121. Continuation of 110 with increased emphasis on integrating the concepts of caring, critical thinking, and the three roles of the AD nurse. The nursing process continues to be the framework for assisting clients throughout the lifespan.

**115 Communication in Nursing (1)**

Prereq: admission to AD nursing program. Explores the concepts of effective communication and the application of the teaching/learning process with clients across the lifespan. A caring therapeutic nurse/patient relationship depends upon effective communication. As a teacher, the nurse addresses the nursing roles of communicator, direct patient care provider, and manager of clients with safety, physiological, psychosocial, or health promotion/learning

needs. Critical thinking skills and effective communication are required by the nurse to successfully meet the learning needs of the client.

### 120 Assessment of the Middle and Older Adult (2)

Prereq: admission to AD nursing program. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of middle to older adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

### 121 Assessment of the Neonate through Young Adult (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130; CHEM 121. Focuses on the assessment of environmental safety, level of physiological and psychosocial integrity, and health promotion and maintenance practices of the neonate through younger adult. Nursing process is introduced as a cornerstone of professional nursing practice. Nursing assessment is emphasized through the direct care role. The components of assessment include a deliberate and systematic collection, validation, and patterns of identification of data from a variety of sources. Critical thinking and caring are essential for effective nursing assessment. Assessment activities will occur in simulated settings.

### 130 Pharmacology in Nursing I (1)

Prereq: admission to AD nursing program. Assists the student in making sound nursing judgments associated with medication therapy. Basic principles of drug administration are taught to enable the student to think critically and to administer medications in a safe and caring manner. Emphasis is on nursing implications of common drug therapy to adult populations. The student will learn to administer non-parenteral medication with concern for safety, precision, and attention to important physiological factors. Simulations will occur in the campus laboratory.

### 131 Pharmacology in Nursing II (2)

Prereq: C or better in 110, 115, 120, 130; BIOS 130, CHEM 121. Builds on 130. Students will learn the injectable methods of drug administration. Emphasis is on nursing implications of drug administration across the life span. Simulations will occur in the campus laboratory.

### 132 Pharmacology in Nursing III (2)

Prereq: C or better in 111, 121, 131, BIOS 131, HCFN 128. Enables the student to make sound nursing judgments associated with medication therapy across the lifespan. Principles of initiating and delivering medications by the IV route are taught. Advanced topics to be covered are care of clients with central lines, administration of blood products, TPI, and chemotherapy. Simulations will occur in the campus laboratory.

### 210 Health Alterations I (7)

Prereq: C or better in 111, 121, 131, BIOS 131, HCFN 128. Focuses on nursing care related to acute and chronic alterations in the physiological needs of nutrition, fluid balance, elimination, oxygenation, transport, and regulation. The student will learn to function as a member within the discipline of nursing, as a provider of care, and as a manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The course will use critical thinking skills to promote health and well-being.

### 211 Health Alterations II (7)

Prereq: C or better in 210, 132, BIOS 201. Focuses on nursing care related to acute and chronic alterations in the physiological needs of oxygenation, perfusion, and ventilation. The student will continue to develop as a member within the discipline of nursing, and as a provider and manager of care for adults. Emphasis will

be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

### 212 Health Alterations III (7)

Prereq: C or better in 211; PSY 101. Focuses on nursing care related to acute and chronic alterations in the physiological needs of movement, coordination, cognition, sensory function, and immunity. The student will refine responsibilities while functioning as a member of the discipline, provider, and manager of care for adults. Emphasis will be placed on establishing a caring relationship between the client, family, and nurse. The nurse will use critical thinking skills to promote health and well-being.

### 220 Maternal, Newborn, and Women's Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Emphasizes the use of critical thinking and caring as a foundation for the AD nurse in delivering care to the childbearing client and to women with alterations in reproductive health. The student will function as a member within the discipline of nursing as a provider/manager of care and promoter of health and well-being.

### 230 Mental Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing and as a provider and manager of care for children, adolescents, and adults with mental and emotional problems. Emphasis will be placed on establishing a therapeutic relationship to assist individuals and families to achieve adaptation, recovery, and growth by working through alterations in psychosocial needs. The nurse will use critical thinking skills to promote mental health.

### 240 Child and Adolescent Health Alterations (5)

Prereq: C or better in 111, 121, 131; BIOS 131; HCFN 128. Focuses on the roles of the AD nurse as a member within the discipline of nursing, provider of care, and manager of care in providing care for infants, children, and adolescents with health alterations. Emphasis will be placed on establishing a caring relationship between the child, family, and nurse. The nurse will use collaboration, communication, and critical thinking skills to promote health and well-being.

### 260 Transition to Nursing Practice (10)

Prereq: C or better in 212, 220, 230, 240; SOC 101. Focuses on facilitating a transition to entry-level nursing. This capstone course further refines critical thinking, caring of self and others, and the roles of the nurse in providing care across the lifespan. Topics such as client care environment, managing client, managing others, and professional development will be included.

### 290A-Z Current Issues in Nursing (1-5, max 15)

Prereq: perm. Series of elective short courses for nursing students at OU-Zanesville. RNs and allied health professionals from the local area may enroll.

### 291A-D Current Issues in Nursing (1-5, max 5)

Prereq: perm. See 290A-Z for description.

### Baccalaureate Program for RNs (NRSE)

#### 295 Introduction to Baccalaureate Nursing Education (1)

Prereq: BSN major. The philosophy, conceptual framework, and curriculum of the Ohio University School of Nursing. Technical and professional levels of nursing education compared. 1 lec.

#### 300 Transitions in Nursing (5)

Prereq: BSN major or school nurse. Focus on issues related to transition from technical to professional nursing. History and development of nursing as a profession, professional practice and the nursing process, nursing theories, nursing

research; general systems theory; role theory; Ohio University's School of Nursing's philosophy and conceptual framework. 5 lec.

### 303 Health and Safety in Early Childhood (3)

Prereq: HCCF 160 or PSY 273. Health and safety knowledge and skills needed in working with children under the age of five years. Includes communicable disease, first aid, environmental safety, and child abuse content. 3 lec.

### 305 Introduction to School Nursing (4)

Prereq: 300. Historical overview of school nursing in the U.S., plus current responsibilities of school nurse in implementing a school health program. 4 lec.

### 310 Health Appraisal I (4)

Prereq: 300 or concurrent. Focus on developing cephalocaudal nursing assessment skills and the ability to draw valid inferences from the data collected. 3 lec, 3 lab.

### 315 Pain Management for Nursing (4)

Prereq: licensed RN; CS 120 or equivalent. Assists RNs in moving from historical perspective of pain management to current concepts underlying the pathophysiology and treatment of pain. Pharmacological and nonpharmacological approaches to acute and chronic pain management addressed from holistic client and family perspectives. This course may be taught on the Internet. 4 lec.

### 325 Health Interventions in Nursing (5)

Prereq: 300 or concurrent. Concept of health and its relationship to nursing intervention strategies. Theoretical and practical aspects of teaching/learning and counseling emphasized. 5 lec.

### 330 Family Nursing (4)

Prereq: 300 or concurrent. Focus on nursing care of family system throughout the life cycle. Synthesis of family theory and application of the nursing process to families. 3 lec., 3 lab.

### 335 Ethical and Legal Issues in Nursing (4)

Prereq: 300 or concurrent. Analysis of the relationships between ethics and the law with close attention given to the issues and decisions that impact professional nursing practice. 4 lec.

### 340 Community Health Nursing (4)

Prereq: 330 or concurrent. Nursing care of aggregate systems within a community. Topics include community health nursing roles and basic concepts of community health. Implementation of population focused care through the nursing process, collaboration, and interdisciplinary skills. 3 lec., 3 lab.

### 405 Research: Critique and Methodology (4)

Prereq: 340A or concurrent; PSY 120 or 221 or MATH 251 or QBA 201. Research in nursing practice. Topics include interrelationships among theory, practice and research; theory and science in nursing; nursing practice models; steps in the research process; critiquing of current research; development of a research proposal. 4 lec.

### 415 Restorative Nursing (4)

Prereq: 405 or concurrent. Nursing care of individuals, families, and groups experiencing alterations in health and the responses to those changes throughout the life cycle. Concepts addressed include: loss, pain, crisis, coping, quality of life. Development of clinical learning objectives and strategies for NRSE 425. 4 lec.

### 416 Management Issues in Nursing (4)

Prereq: 300 or concurrent. Nursing management through use of a systems approach. Leadership models and behavior at various organizational levels discussed. Critical management strategies introduced. 4 lec.

### 425 Clinical Applications in Nursing (4)

Prereq: 415A. Examination of selected nursing situations and independent clinical professional nursing roles. 3 lec, 3 lab.

**445 Strategic Planning in Nursing Care (4)**

Prereq: 405 or concurrent. Application of strategic planning concepts to professional nursing practice. Topics addressed are assessment of organizational system and implications for change; accountability and quality assurance; power and influence. Active involvement as change agent and implementation of planned change project. Clinical experience in a variety of settings. 3 lec, 3 lab.

**455 Excellence in Nursing (4)**

Prereq: 445 or concurrent. Synthesis course designed to enhance student's knowledge of professional nursing. Past and present issues and trends in nursing examined. Emerging trends and futuristic nursing studied. Content will vary depending upon student needs and interests as well as events occurring in discipline of nursing. 4 lec.

**461A School Nurse Seminar: Early Childhood (1)**

Prereq: 305; 461C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 3 and 8 years (preschool-third grade). 1 lec.

**461C School Nurse Practice: Early Childhood (4)**

Prereq: licensed RN, malpractice insurance. Practice as a school nurse in school setting with children between the ages of 3 and 8 years. Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

**462A School Nurse Seminar: Middle Childhood (1)**

Prereq: 305; 462C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 9 and 13 years (grades 4-8). 1 lec.

**462C School Nurse Practice: Middle Childhood (4)**

Prereq: 305; 462C concurrent; school nurse, malpractice insurance. Practice as a school nurse in elementary and middle schools (grades 4-8). Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

**463A School Nurse Seminar: Late Childhood (1)**

Prereq: 305; 463C concurrent; school nurse. Health care issues in school settings that impact children between the ages of 14 and 20 years (grades 9-12 and early college). 1 lec.

**463C School Nurse Practice: Late Childhood (4)**

Prereq: licensed RN, malpractice insurance. Practice as a school nurse in secondary and post-secondary schools. Learner will work with a preceptor who is a certified/licensed school nurse. 12 lab.

**490 Independent Study (1-5)**

Prereq: perm. Student chooses a topic of specific interest with the assistance of a faculty member.

**491 Current Topics (1-5)**

Prereq: Ohio RN licensure.

**491A Clinical Application of Teaching (1-3)****491B Gerontic Nursing (1-3)****491C Critical Care Nursing (1-3)****122 Keyboarding II (4)**

Prereq: 121. Emphasis on formatting problems and keyboarding speed building. Production work involves tabulations, reports, correspondence, and business forms.

**123 Keyboarding III (4)**

Prereq: 122. Advanced keyboarding problems, techniques, knowledge, and skills involved in production keyboarding work using computers. Designed to acquire maximum in production.

**130 Business Communication I (3-4)**

Basic English grammar review with emphasis on word usage, sentence structure, paragraph development, capitalization, and punctuation for more effective business writing.

**141L Legal Terminology (2)**

Prereq: 121. Intensive course of study in legal terminology and vocabulary including definitions, usage, derivations, and spelling.

**141M Medical Terminology (2)**

Prereq: 121. Structure of medical words and terms. Emphasis on spelling and defining commonly used prefixes, suffixes, root words, and their combining forms.

**171 Administrative Procedures I (3-4)**

Prereq: 121. Enhancement of skills as they relate to the world of work.

**171L Legal Support and Procedures I (3)**

Prereq: 121. Enhancement of skills as they relate to the world of legal work.

**171M Medical Support and Procedures I (3)**

Prereq: 121. Enhancement of skills as they relate to the world of medical work.

**172 Administrative Procedures II (4)**

Prereq: 171. Continuation of 171. Instruction in current office practices as well as critical thinking and problem solving skills, including business protocol, professional development, telecommunications, and experiences in general office work expectations.

**172L Legal Support and Procedures II (3)**

Prereq: 171L. Emphasizes machine transcription utilizing complete production units concerning legal correspondence and documents.

**172M Medical Support and Procedures II (3)**

Prereq: 171M. Emphasizes machine transcription utilizing complete production units concerning medical correspondence and documents, such as case histories, articles, and hospital reports.

**189 Independent Study (1-5, max 10)**

Prereq: perm. Studies in selected subject areas related to office technology field. May be repeated up to 5 credit hours.

**200 Desktop Publishing I (3)**

Prereq: 121 recommended. Develops skill in using desktop publishing software. Covers publishing information, graphic design basics, and will prepare students to produce newsletters, brochures, catalogs, etc., that are of professional quality.

**201 Desktop Publishing II (3)**

Prereq: 200. Continuation of 200. Advanced applications using desktop publishing.

**221 Dictation/Transcription (4)**

Prereq: 121 and 130. Development of machine transcription skills for taped dictation.

**225 Communication Processing I (3-4)**

Prereq: 121 or concurrent. Introduction to professional communication processing. Emphasis will vary by campus.

**226 Communication Processing II (3-4)**

Prereq: 225. Continuation of 225. Emphasizes advanced applications.

**227 Communication Processing III (3)**

Prereq: 226. Designed to introduce students to a variety of software—including integrated hardware and software evaluation processes—using the microcomputer.

**230 Business Communication II (4)**

Prereq: 130 or ENG 150 or higher placement. Extensive and detailed practice in written communication for business, industry, and professions. Involves composition of letters, memoranda, and reports.

**231 Business Calculations (4)**

Prereq: MATH 101, 102, or higher placement. Practical mathematical calculations typical of a business situation. Concentration on problem-solving techniques necessary to perform calculations accurately and efficiently.

**248 Administration of Record Systems (3)**

Controlling cost and improving effectiveness of records and information management within business enterprises. Includes control of record creation, maintenance, and disposition through systems analysis; forms management; protection methods.

**258 Stress Management for Office Personnel (3)**

Involves recognition of stress, how to handle stress within yourself, how to assist office personnel in dealing with stress, and implications of time in its relationship to stress.

**267 Office Supervision (4)**

Prereq: 122, 172. Involves principles and practices of management of flow of information within enterprise. Includes basic management functions of planning, controlling, organizing, and coordinating as applied to office services, physical facilities, systems and procedures, work measurement and standards, and business information systems. Emphasis on matters of personnel.

**268 Information System Design (3)**

Effective use of management techniques and equipment in meeting informational needs of business and industry. How to design optional system utilizing feasibility studies, etc., and how to implement design.

**288 Information System Equipment Selection—Acquisition Seminar (2)**

Remodeling or designing new facilities, including space management, as well as source, cost, and justification for special equipment and furniture. Use of consultants and feasibility studies reviewed.

**290 Seminar (4)**

Prereq: perm. Special topics and problems encountered in field experience discussed. Opportunity to share ideas and experiences and to find possible answers to questions arising in actual working situations.

**291 Special Topics (1-5, max 10)**

Prereq: perm. Projects concerning office technology field explored on one-to-one basis with instructor.

**298 Practicum in W/P Supervision (2)**

Experiences in supervision of word/data processing labs or centers. Responsibilities include assisting W/P trainees, demonstrating equipment to classes/visitors, producing complex documents, designing forms, and learning/developing new systems.

**299 Internship (1-5, max 10)**

Prereq: 225 and perm. Practical field experience or in-class office simulation.

**Office Technology (OTEC)**

The following courses for the A.A.B. in office technology are available on the Chillicothe, Lancaster, and Southern campuses. Some elective courses are unique to a particular campus. Under University College, see the Colleges and Curricula section for the list of required courses.

**121 Keyboarding I (4)**

Introduction to touch keyboarding system with emphasis on correct techniques, mastery of keyboard, typical business correspondence, tabulation, and reports.

**Ohio Program of Intensive English (OPIE)**

Credit hours listed for OPIE are not applicable to degree requirements. For English for nonnative speakers applicable to degree requirements, see ENG 150A, 151A in English under ENG 150, 151.

**21 Elementary Core Skills (12)**

Prereq: perm. 12-hour core component of a full-time (20 hours/week) course in English as a second language for students at the elementary level whose ultimate aim is academic study.

Core Skills class focuses on basic grammar and communication skills. Writing sometimes included. Focus is on American English for effective communication both inside and outside the classroom.

## **22 Elementary Listening/Speaking (4)**

**Prereq:** perm. This course is one component of full-time study of English as a second language for students at the elementary level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in basic listening and speaking for everyday communication.

## **23 Elementary Reading/Writing (4)**

**Prereq:** perm. This course is one component of full-time study of English as a second language for students at the elementary level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in reading and vocabulary. Students build their reading skills by learning reading strategies and practicing with readings and exercises from the textbook. Students build their vocabulary by learning new words and learning to determine the meaning of words from context clues and word analysis. Students work to develop sentence-level writing skills and may begin practice writing simple paragraphs.

## **26 Intermediate Core Skills (12)**

**Prereq:** perm. Twelve-hour core component of a full-time (20 hours/week) course in English as a second language for students aiming at academic study. Students at this level do not take academic courses. Paragraph level writing competency is developed as students expand grammatical knowledge and explore the process of writing. Instruction and practice includes an introduction to the three-paragraph essay.

## **27 Intermediate Listening/Speaking (4)**

**Prereq:** perm. This course is one component of full-time study of English as a second language for students at the intermediate level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in listening and speaking.

## **28 Intermediate Reading/Vocabulary (4)**

**Prereq:** perm. This course is one component of full-time study of English as a second language for students at the intermediate level whose ultimate aim is academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in reading and vocabulary. Students build their reading skills by learning reading strategies and practicing with readings and exercises from the textbook. Students build their vocabulary by learning new words and learning to determine the meaning of words from context clues and word analysis. This course includes instruction and practice in using an English-only dictionary.

## **31 Advanced Core Skills A (12)**

**Prereq:** perm. The Advanced CORE Skills A is a 12-hour CORE component of a full-time (20 hours/week) course of study in English as a second language for students preparing for academic study in an American university. Students incorporate understanding of grammatical structures, appropriate vocabulary, and organization into formally developed essays. More emphasis is placed on rhetorical modes and developing editing skills. Reading comprehension and lexical skill development is emphasized along with the improvement of reading rate. Students learn to synthesize the various skills and strategies to which they have been exposed. Listening and speaking skill activities rely more heavily on academic task simulations and university-level expectations.

## **32 Advanced Core Skills B (12)**

**Prereq:** perm. The Advanced CORE Skills B is a 12-hour CORE component of a full-time (20 hours/week) course of study in English as a second language for students preparing for academic study in an American university.

Students incorporate understanding of grammatical structures, appropriate vocabulary, and organization into formally developed essays. More emphasis is placed on rhetorical modes and developing editing skills. Reading comprehension and lexical skill development is emphasized along with the improvement of reading rate. Students learn to synthesize the various skills and strategies to which they have been exposed. Listening and speaking skill activities rely more heavily on academic task simulations and university-level expectations.

## **33 Academic Listening/Note-taking/Speaking (4)**

**Prereq:** perm. This OPIE part-time level elective class aims to improve students' listening, note-taking, and speaking skills needed for successful academic work. Class time is spent on listening to academic mini-lectures, note-taking, discussions, and oral presentations.

## **34 Academic Reading Skills (4)**

**Prereq:** perm. Provides students with both an understanding of the reading process and intensive practice in developing advanced-level reading strategies and skills. Designed to improve reading comprehension, reading speed, academic vocabulary, and awareness of text structures and rhetorical patterns.

## **41 American Culture (4)**

**Prereq:** perm. A general overview of American culture to increase awareness and understanding of the cultural values of the United States and other cultures. Provides cross-cultural activities for small group and class discussions, and topics for oral presentations, research, and writing projects. Academic English skill-building through reading, writing, listening and speaking activities, vocabulary study, summarizing, research and oral reports, and group activities.

## **42 Stories in the News (4)**

**Prereq:** perm. Students in this four-hour per week course will work to improve reading, writing, listening, and speaking skills while they study and report on a) current news stories and b) contemporary world issues.

## **43 U.S. Cities: New York and Los Angeles (4)**

**Prereq:** perm. Through instruction in the history and cultural geography of two U.S. cities: New York City and Los Angeles, students improve their academic English language skills in grammar, reading, writing, listening, and speaking. Students practice language skills through discussion, oral presentations, written assignments, journal and essay writing, and completing reading logs. Students also learn and develop research skills by accessing and gathering information from a variety of sources.

## **44 Native Americans of the U.S. (4)**

**Prereq:** perm. This course will help students further develop all English language skills while learning about Native American history, culture, and current social and political issues. Students will gather information from a variety of sources including newspaper and magazine articles, the Internet, videotapes, guest speakers, and field trips, they will use this information in discussions, presentations and papers.

## **46 Ecology and the Environment (4)**

**Prereq:** perm. This course will help students further develop all language skills as well as learn about local ecology and worldwide environmental issues. Students will gather information from a variety of sources including newspaper and magazine articles, the Internet, videotapes, guest speakers, and field trips, they will use this information in discussions, presentations and papers.

## **47 English through Music (4)**

**Prereq:** perm. This course is one component of either full-time or part-time study of English as a second language for students whose ultimate aim is full-time academic study. Four hours of classroom instruction are designed to provide students with instruction and practice in listening/speaking and reading while exploring American musical genres and American culture.

## **51 Academic Core Skills 1 (8)**

**Prereq:** perm. Academic Core Skills 1 is a part-time integrated core in English as a Second Language for students who are also permitted to take one academic course. Eight hours of classroom instruction (two hours a day, four days a week) focus on the development of academic English language skills including reading and writing, study skills, and academic performance skills needed for success in an academic program in the U.S. Listening and speaking will also be addressed, and grammar will be addressed as needed.

## **52 Americans at Work (4)**

**Prereq:** perm. This course focuses on improving students' academic reading, composition, and presentation skills by introducing them to work as a cultural phenomenon, to the history of work in the U.S., and to American cultural values and beliefs about work.

## **53 Adventures in Mythology (4)**

**Prereq:** perm. Students in this course will work on improving their academic reading, writing, listening, and speaking skills through simulated academic study of mythology.

## **54 Public Speaking (4)**

**Prereq:** perm. The Public Speaking Class develops speaking, listening, and presenting skills through discussion, demonstration, and extensive practice. This course is useful for both academic work and the workplace.

## **56 Academic Core Skills 2 (8)**

**Prereq:** perm. Academic Core Skills 2 is a part-time level integrated core in English as a Second Language for students who are also permitted to take one or two academic courses simultaneously. Eight hours of classroom instruction (two hours a day, four days a week) are designed to provide students with high-level language skills development, with a specific focus on academic reading and writing skills, as well as academic performance and study skills. Students also work on academic listening and speaking skills.

## **57 Pronunciation through Current Events (4)**

**Prereq:** perm. This course will focus on improving the accuracy of students' speaking abilities. Students will have the opportunity to learn and practice the individual sounds, rhythm, intonation, and stress associated with spontaneous and planned spoken English. In addition, students will study current issues through the use of news-related listening materials and class discussions. These discussions of current events will provide the primary means for student improvement by enabling students to practice speaking in a relevant and engaging context.

## **58 College Vocabulary (4)**

**Prereq:** perm. This course is designed to engage students in improving their vocabulary and using it accurately and fluently for academic purposes.

## **61 Academic Core Skills 3 (8)**

**Prereq:** perm. This course is a part-time support course(s) in English as a Second Language for students who are also permitted to take two academic courses. Eight hours of classroom instruction (two hours a day, four days a week) are designed to provide students with high-level language skills development, with a specific focus on academic reading and writing skills, as well as academic performance and study skills.

## **62 Intercultural Communication (4)**

**Prereq:** perm. This course focuses on improving students' academic reading, composition, and presentation skills by introducing them to the fundamental concepts of intercultural and interpersonal communication and the problems of intercultural conflict.

## **64 Grammar (4)**

**Prereq:** perm. Through this OPIE part-time level elective class, students will increase their ability to use a variety of grammatical patterns and structures to express original ideas, to edit written text, and to paraphrase, summarize, and synthesize information and ideas in order to perform extended academic tasks orally and in writing.



**65 Composition (4)**

Prereq: perm. Through this OPIE part-time level elective class, students will increase their ability to write about familiar or prepared topics (up to three typed pages) with some precision and sufficient support. They will increase their ability to synthesize, summarize and paraphrase information from articles and academic texts. Students will perform various academic writing tasks such as writing persuasive essays and integrating paraphrased or summarized sources into a text. They will increase their ability to use a variety of grammatical patterns and structures to express original ideas in writing.

**66 Issues through Film (4)**

Prereq: perm. Students in this five session per week course (ordinarily six hours of class) will work to improve speaking, reading, and writing as well as listening skills through a study of some of the traditional themes of USA cinema, and of movies that exemplify those themes.

**67 Information Gathering (4)**

Prereq: perm. This OPIE part-time level elective class on Information Gathering (Techniques for Gathering and Evaluating Research Information) aims at providing international students with basic and, in some cases, advanced level information gathering and evaluation skills while at the same time improving their English language ability, particularly in the areas of reading, listening/speaking, and classroom interaction skills.

**73 Introduction to Graduate Writing (3)**

Prereq: perm. This required course is for graduate students whose first language is not English and whose writing assessment reveals serious weakness in acceptable standard English for academic purposes. This course addresses critical reading and written communication of information for academic purposes—from the paragraph to the research paper. Grammatical and vocabulary issues are also addressed.

**74 Advanced Graduate Writing (3)**

Prereq: perm. For graduate students whose first language is not English, this course addresses how to organize and present written information in acceptable academic English. Students practice discourse skills that include but are not limited to word choice clarity, emphasis, and subtleties of expression. Coherence in writing will be emphasized. Practice in the critical discourse modes of graduate writing and editing are addressed.

**82 Oral Communication in Graduate Studies (3)**

Prereq: perm. The goal of this course is to improve students' oral communication skills in English for success in the U.S. academic community. Students explore aspects of language, the U.S. academic culture, and strategies for effective discussion and presentation. Students will have the opportunity to learn and practice the individual sounds, rhythm, intonation, and stress associated with spontaneous and planned spoken English.

**99 Special Studies (1-15)**

Prereq: perm. Individual or small group independent or tutorial study classes set up to meet the needs of students unable to participate in standard classes. Content and objectives taken from standard classes but adapted to the individual or small group independent or tutorial method of delivery.

**Operations (OPN)****298 Internship (1)**

Prereq: Perm. Internship experience that provides on-site exposure to general business operations and procedures. Intended for experiences following the freshman year.

**310 Principles of Operations (4)**

Prereq: QBA 201 or PSY 221 or ECON 381 or COMS 301 or GEOG 271 or MATH 251. More than any other function, operations provides

an organization with the capability to compete successfully in the global marketplace. With proper operations management, the firm can provide a product or service of higher quality in less time and at less cost than the competition. Emphasis on conceptual understanding of the operations function and includes the following topics: product/process selection and design, facility location and layout, capacity, material and inventory management, quality, etc.

**398 Internship (1-4)**

Prereq: perm. Internship experience that provides opportunities to learn by participating in day-to-day activities of a business concern for at least four consecutive weeks. Intended for experience following the sophomore year.

**497 Independent Research (1-4)**

Prereq: written proposal and perm. Independent research. Course content determined by professor and student.

**498 Internship (1-4)**

Prereq: perm.

**Philosophy (PHIL)**

**101 Fundamentals of Philosophy (4) (2H)**  
Survey of selected basic problems, concepts, and methods in philosophy.

**120 Principles of Reasoning (4) (1M)**

Basic concepts of logic and techniques for judging validity of arguments introduced. System for symbolizing arguments and deriving conclusions from premises employed. Some of following topics also covered: informal fallacies in reasoning, syllogistic or Aristotelian logic; Venn diagrams, truth tables. Most sections are traditional lecture/test format, some taught in computer-assisted format, others use self-paced approach.

**130 Introduction to Ethics (4) (2H)**

Discussion of classic and/or modern philosophical views of human values, ideals, and morality. Provides introductory survey of some main problems, concepts, and results of ethics including selected philosophers of past and present.

**216 Philosophy of Science Survey (3) (2H)**

Nontechnical survey of types, testing, and credibility of hypotheses; methods of experimental inquiry; measurement; laws, theories and their role in explanation, concept formation.

**231 Philosophy of Sport (4)**

Prereq: soph. Philosophical exploration into nature, meaning, purposes, values, and ideals of sport. Topics include goods and evils of competition, nature of sports experience, winning and losing, aesthetic and ethical dimensions of sport, ultimate athlete, scholastic athletics, philosophy of physical education, concept of sportsmanship, etc.

**232 Philosophy of Art (4) (2H)**

Conceptual analysis of common assumptions, attitudes, theories, and ideas about arts, their criticism, and appreciation.

**235 Business Ethics (4)**

Prereq: soph. Examination of moral reasoning as it pertains to institutions and practices of contemporary business. First half is devoted to basic ethical concepts and analysis of basis for acceptable ethical theory, investigation of role of government and society in their relationship to business, and value assumptions behind competing social and political systems business personnel encounter in today's global marketplace. Second half examines specific case studies.

**240 Social and Political Philosophy (4) (2H)**

Introduction to major philosophical theories concerning nature of social and political communities including those offered by Plato, Aquinas, Hobbes, Locke, Mill, and Rawls. Consideration of some significant specialized

problems in social and political theory including distributive justice, civil disobedience, liberty, punishment, etc.

**250 Philosophy of Mind (4)**

Mind-body problem; concept of self; human-machine relation; problem of other minds.

**260 Philosophy of Religion (4) (2H)**

Problems in the nature of religion, existence and the nature of God; problem of evil, immortality, and religious language.

**297T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in philosophy.

**298T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in philosophy.

**299T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (spring) 1st-yr tutorial studies in philosophy.

**310 History of Western Philosophy: Ancient (5) (2H)**

Significant ideas of representative Greek and Roman philosophers.

**311 History of Western Philosophy: Medieval and Renaissance (5) (2H)**

Augustine to Bruno and Campanella.

**312 History of Western Philosophy: Modern (5) (2H)**

17th and 18th century European philosophy.

**314 19th Century European Philosophy (4) (2H)**

Subjects selected from French, German, and British philosophers of 19th century.

**320 Symbolic Logic I (4)**

Techniques of modern symbolic logic.

**330 Ethics (5)**

Study focusing on specific philosopher, or one type of ethical or value theory.

**331 Moral Problems in Medicine (4)**

Prereq: soph. Philosophical investigation of complex moral problems engendered by modern medicine, e.g., death with dignity, human experimentation, allocation of scarce medical resources, birth defects, killing or letting die, informed consent, etc. Basic philosophical concepts underlying these problems explored, including autonomy, coercion, normality, naturalness, rights, justice, responsibility, personhood, etc.

**332 Philosophy of Sex and Love (4)**

Prereq: jr. Philosophical and evaluative investigation into subject of sexual love and Western morality. Topics include roles and relations between sexes, abortion, monogamy, sexual perversion, homosexuality, promiscuity, adultery, semantics of sex, etc.

**333 Philosophy of Literature (4)**

Prereq: jr. Examines nature of fictional literature as differentiated from other types of writing. Explores philosophical ideas within specific works of fiction, concentrating on problems of translating philosophical content into literary form, interpretation, belief, truth, and artistic integrity.

**335 Environmental Ethics (4)**

How should we value nature? What is important about it, and why? Is it important to us because caring for nature advances our interests, or because it is valuable in its own right? Do animals have special claims upon us? Should our primary concern be for individual organisms, or for species? This course will aim at thinking through some of the questions that surround the idea of valuing the environment in which we live, and understanding possible views as to the source and nature of that value.

**350 Philosophy of Culture (5)**

Philosophical studies of humankind as culture-creating being.

**351 Philosophy of Language (4)**

Prereq: 6 hrs in philosophy, including 120 or 320. Theories of meaning and reference and their philosophical significance, relations of meaning to verification and truth, and relationship between language and concepts.

**358 Existentialism (4)**

Prereq: 9 hrs in philosophy. Existential thought from Kierkegaard to Camus stressing such themes as freedom, existence, despair, authenticity, alienation, death, and revolt against system.

**397T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial college students only. (fall) 2nd-yr tutorial studies in philosophy.

**398T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial college students only. (winter) 2nd-yr tutorial studies in philosophy.

**399T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial college students only. (spring) 2nd-yr tutorial studies in philosophy.

**412 Philosophy of Biology (5)**

Prereq: BIOS 172 or P810 111. An analysis of such issues as the structure of theory in biology, whether biology differs from other sciences; whether species exist, natural selection, how taxonomy should be done, and whether biology raises any ethical issues.

**413 Philosophy and Freudian Analysis (5)**

Prereq: PSY 332 or 333. The philosophical and scientific presuppositions of Freudian psychology (including Freud's methodology) will be identified and subjected to rigorous philosophical analysis. Freud's early thought on hysteria, dreams, sexuality, and psychoanalysis will be emphasized. Recent attacks on the legitimacy of psychoanalysis will be examined. Alternative schemes for understanding human behavior will also be discussed.

**414 Analytic Philosophy (5)**

Prereq: 4 philosophy courses. Selected topics in contemporary Anglo-American philosophy.

**416 Philosophy of Science (4)**

Prereq: 3 philosophy courses. Selected problems in logic and methodology of sciences.

**417 Philosophy of Logic (4)**

Prereq: 320 or 502. Provides a survey of issues in the philosophy of logic. Topics include formal theories of truth, logical and semantical paradoxes, modal logic, conditionals, interpretations of quantifiers, and philosophical implications of Gödel's incompleteness theorems.

**418 Plato (5)**

Prereq: 4 philosophy courses, including 310.

**419 Aristotle (5)**

Prereq: 4 philosophy courses, including 310.

**420 Symbolic Logic II (4)**

Prereq: 320 or 502 or MATH 306 (or equiv.) or CS 300. Continuation of 320. Focuses on the completeness of first-order logic, Gödel's incompleteness theorems, axiomatic set theory, and Cantor's and Dedekind's theories of the infinite.

**425 Philosophical Problems in Quantum Physics (4)**

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. Interpretation and paradoxes of quantum theory. Topics include the problem of measurement, the Bohr-Einstein debates, Schrödinger's cat paradox, the Einstein-Podolsky-Rosen paradox, and Bell's Theorem and its implications.

**426 Philosophy of Space and Time (4)**

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. In addition to classical topics, issues in the philosophy of space and time that have been greatly influenced by the emergence

of Einstein's theory of relativity will be discussed. Topics to be covered include the nature of geometry and its relation to the world, absolute vs. relational theories of space, time, and space-time, and Zeno's paradoxes of motion and extension. Contemporary and classical thinkers will be examined.

**427 Philosophy of Mathematics (4)**

Prereq: 3 courses from PHIL, PHYS, CHEM, MATH, CS, or engineering. An in-depth examination of a major work in the philosophy of mathematics or of a particular concept that plays a central role in mathematical philosophy, such as the concept of number, the concept of mathematical proof, and the concept of the mathematical infinite.

**428 Continental Rationalism (5)**

Prereq: 4 philosophy courses, including 312. (alternate yrs) Descartes, Spinoza, Leibniz.

**429 British Empiricism (5)**

Prereq: 4 philosophy courses, including 312. (alternate yrs) Locke, Berkeley, Hume.

**430 Contemporary Ethical Theory (5)**

Prereq: 4 philosophy courses, including 130, 240, 330, or 442. Significant current literature in selected topics of moral, social, political, and legal philosophy.

**431 History of Aesthetic Theory (5)**

Prereq: 4 philosophy courses. Readings from Plato to Dewey and relation of these theories to selected arts and recent criticism.

**432 Problems in Aesthetics (5)**

Prereq: 9 hrs philosophy, literature, or art. A variety of philosophical issues surrounding the arts and aesthetics drawn from contemporary sources will be discussed. Topics include the nature of art, expression, interpretation, evaluation, and art and knowledge.

**434 Metaethics (4)**

Prereq: 4 philosophy courses including 130 or 240 or 430. The study of metaethics is the study of the nature of ethical or normative judgments. What are we doing when we make ethical judgments? Is it right to think that ethical judgments are capable of being true or false? If so, in virtue of what? We can also wonder about the nature of moral motivation. Does a judgment that something is morally wrong automatically entail that one has a motive not to do it? This course will be a survey of readings on these two questions.

**438 Kant (5)**

Prereq: 4 philosophy courses, including 312. Kant's Critique of Pure Reason with attention given to his ethical theory.

**440 Contemporary Social Philosophy (5)**

Prereq: 330 or 240 or 442 and 3 other philosophy courses. Consideration of any number of various issues in contemporary, social, political, and legal philosophy. Possible topics: theories of distributive justice, culpability, causality and responsibility, legal and moral rights, etc.

**442 Philosophy of Law (5)**

Prereq: 3 philosophy courses or perm. Consideration of nature and justification of law and examination of some specialized topics in philosophy of law, including ascription of responsibility, civil disobedience, theories of punishment, liberty, etc.

**444 Philosophy of Marxism (5)**

Prereq: 4 philosophy courses. Philosophical inquiry into classical and contemporary Marxist thought stressing Marx, Engels, Lenin, Stalin, Mao, and several contemporary Marxists such as Praxis group of Yugoslavia.

**448 Pragmatism (5)**

Prereq: 4 philosophy courses. Peirce, James, Dewey, and other American thinkers.

**450 Theory of Knowledge (5)**

Prereq: 4 philosophy courses, including 312. Critical examination of various views of what knowledge is and how it is attained.

**451 Metaphysics (5)**

Prereq: 4 philosophy courses, including 310 or 312. Discussion of basic philosophical issues such as: conceptual schemes and the external world, causation, universals, determinism and freedom, the nature of the mind, etc.

**458 Contemporary European Philosophy (5)**

Prereq: 4 philosophy courses, including 358 and 468. Phenomenology and existentialism as seen in Husserl, Heidegger, Scheler, Hartman, Dilthey, Cassirer, Gebser, Ingarden, Sartre, Camus, Marcel, Merleau-Ponty, and Ricoeur.

**468 Phenomenology (5)**

Prereq: 4 philosophy courses, including 312. Method and philosophy of phenomenological movement from Husserl to Merleau-Ponty.

**475 Chinese Philosophy (5)**

Prereq: 4 philosophy courses, including 371. Major Chinese philosophers and schools of thought from earliest times to present.

**476 Indian Philosophy (5)**

Prereq: 4 philosophy courses, including 370. Classical Hinduism.

**477 Buddhist Philosophy (5)**

Prereq: 4 courses, including 371. (on demand) Abhidharma, Madhyamika, Yogacara, Zen, and other philosophical doctrines of Buddhism.

**478 African Philosophy (5)**

Prereq: jr. Critical examination of the question, debated today among African philosophers, whether traditional African thought systems should be regarded and developed as philosophical systems. Includes survey of most significant of these thought systems.

**490 Senior Seminar (3)**

Prereq: sr, 310, 312, 320. Survey of selected subfields of philosophy. Required of all majors in philosophy during the senior year.

**491 Seminar in Philosophy (1-15, max 15)**

Prereq: 5 philosophy courses. Selected problems.

**492 Applied Ethics (5)**

Prereq: 2 courses from 130, 235, 330, 331, 430. An examination of the relationship of applied ethics to ethics as a branch of philosophy, a survey of major areas within applied ethics (medical, business, journalistic, etc.), and a consideration of selected problems in each area.

**497 Independent Reading (1-9, max 12)**

Prereq: perm of chair.

**497T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (fall) 3rd-yr tutorial studies in philosophy.

**498T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (winter) 3rd-yr tutorial studies in philosophy.

**499 Senior Thesis (3-15)**

Prereq: perm. Must be enrolled in each of three senior quarters to achieve honors in philosophy. Research and writing of long philosophical paper.

**499T Philosophy Tutorial (1-10)**

Prereq: Honors Tutorial College students only. (spring) 3rd-yr tutorial studies in philosophy.

## Physical Education

See Recreation and Sport Sciences—Physical Education Activity

## Physical Therapy (PT)

**259A Introduction to Physical Therapy (2)** (fall, spring). Designed for those students who are considering physical therapy as a career option. Presentations and topics of discussion will attempt to bring the student to an understanding of the physical therapy profession and the requirements for entry into the profession. 2 lec.

### **259B Introduction to Physical Therapy Clinical Experience (3)**

For students who are considering physical therapy as a career, presentations and direct observation of evaluation and treatment of patients through Therapy Associates will help identify the various roles and settings for physical therapists. 1 lec, 4 lab.

**400 Human Anatomy and Dissection (7)**  
Prereq: major. (summer) Detailed study of gross structures of extremities and body wall with emphasis on musculoskeletal, neuromuscular, respiratory, and cardiovascular structures. Relationships of structure to normal and abnormal function stressed. Includes surface inspection, palpation, analysis of radiographic studies, and dissection. (Same as PT 500.) 4 lec, 9 lab.

### **401 Functional Anatomy (3)**

Prereq: C or better 400. (fall) Based on a foundation of gross anatomy structure, the course applies the principles of biomechanics to explore the relationship between structure and function. Emphasis on biomechanics, arthrokinematics, and muscle function of common activities. Study of palpation, goniometry, manual muscle testing. (Same as PT 501.) 2 lec, 2 lab.

### **402 Clinical Kinesiology (3)**

Prereq: 401. (winter) Application of the principles of functional anatomy to the study of posture and gait. Applications of palpation, goniometry, and muscle testing skills to clinical situations. (Same as PT 502.) 2 lec, 3 lab.

### **404 Introduction to the Profession (2)**

Prereq: major. (summer) Introduces the physical therapy profession and professional role expectations. Studies the history of physical therapy as it relates to the professionalization process, including ethical and legal obligations, as well as student responsibilities. (Same as PT 504.) 2 lec.

### **405 Introduction to Clinical Education (2)**

Prereq: 404. (fall) Introduces professional role responsibilities and patient problems involved in different clinical settings such as acute-care hospitals (inpatient and outpatient), outpatient clinics, rehab facilities, home health agencies, long-term care facilities, schools, and industrial settings. Basic communication skills for effective therapist-patient interaction. Prepares students for first clinical experiences. (Same as PT 505.) 2 lec.

### **406 Clinical Neurology for Physical Therapists (2)**

Prereq: 400. (fall) Provides a link between basic neuroscience and the clinical manifestations which occur following a disruption of processes within the peripheral and central nervous systems. Focus on the signs and symptoms of conditions treated by physical therapists. (Same as PT 506.) 2 lec.

### **412 Professional Role Issues (2)**

(winter) Major philosophical and substantive issues confronting physical therapists and other professionals involved in health care delivery. Includes historical perspectives, education and accreditation, and roles and responsibilities of physical therapists relative to supportive personnel and related health care disciplines. Emphasis on role problems. (Same as PT 512.) 2 lec.

### **425A PT Evaluations: Case Studies (2)**

(winter) Introduction to evaluation formats and procedures to complement the clinical decision

making process concurrently taught. Focus on presenting general and specialty evaluations by clinicians, with opportunities for discussion, practice, and critique. (Same as PT 525A.) 1 lec, 2 lab.

### **440 Clinical Decision Making (2)**

Prereq: 400. (winter) Presents theoretical foundation of clinical problem solving. Problem solving models for decision making are advanced and critiqued. Focus on physical therapy evaluation and treatment with analysis of process utilized by clinicians. (Same as PT 540.) 2 lec.

### **448A Clinical Modalities (3)**

Prereq: 403. (spring) Designed to provide both theoretical base and procedural techniques involved in the use of clinical modalities. Emphasis on thermal agents, mechanical agents, electrical stimulation, biofeedback, and electromyography. (Same as PT 548A.) 2 lec, 3 lab.

### **450A Introduction to Clinical Orthopedics (3)**

Prereq: 402. (spring) Application of kinesiology, pathophysiology, evaluation, and decision making skills in common conditions such as sprains, strains, fractures, and total joint arthroplasty. Clinical decision making in sports medicine, industrial, and geriatric cases. Aspects of orthopedic surgical intervention discussed. (Same as PT 550A.) 2 lec, 3 lab.

### **467 General Medical-Surgical Cases (3)**

Prereq: 400. (spring) Presentation of general medical-surgical patient problems commonly seen in physical therapy. Case study approach incorporates basic, social, and clinical sciences as well as PT and interdisciplinary evaluation and treatment. Practice skills focus on diagnostic and patient care procedures. (Same as PT 567.) 2 lec, 3 lab.

### **480A Research Design (3)**

Prereq: 440. (spring) Application of research principles and procedures to critical analysis of physical therapy related research literature; identification and development of a researchable problem in physical therapy. (Same as PT 580A.) 3 lec.

### **499 Clinical Education Experience I (1)**

Prereq: 405. Assigned clinical experiences appropriate to student's level of skill. (Same as PT 599.) 3 lab.

## Physics and Astronomy

### Astronomy (ASTR)

#### **100 Survey of Astronomy (4) (2N)**

General introduction to astronomy, with emphasis on the structure of the universe beyond our solar system. Topics (chosen by instructor) may include historical astronomy, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as PSC 100. 4 lec.

#### **100D Moons and Planets: The Solar System (4) (2N)**

General introduction to astronomy, with emphasis on our solar system and other planetary systems. Topics (chosen by instructor) may include historical astronomy, the sun, the surfaces, interiors, and atmospheres of the planets, comets, asteroids and meteor impacts, planets around other stars, and the origin of life. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as PSC 100D. 4 lec.

#### **140 Observational Astronomy Laboratory (1) (2N)**

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as PSC 140. 2 lab.

### **200 Introduction to Planetary Science (3) (2S)**

Prereq: 4 hrs PSC or GEOL or perm; MATH 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

### **205 Life on Other Worlds? (3) (2N)**

Prereq: 4 hrs PSC; MATH 113 or equiv; no credit for both ASTR 205 and PSC 205. An exploration of ideas relating to the possibility that life exists elsewhere in the universe, both on planets and moons within our solar system, and within other planetary systems. The course begins by considering our planet's formation and the conditions which may have led to life appearing here, then moves outward.

### **305 Fundamentals of Astrophysics (3)**

Prereq: PHYS 253, MATH 263C. Physical foundations of astronomical observation and theory. Time and coordinate systems, orbits, celestial mechanics, radiation mechanisms, and spectra. Telescopes and instrumentation. Introduction to the physical properties of stars, galaxies, and interstellar matter. Overview of cosmological distance measurements and the "hot big bang" model.

### **310 Astronomy Laboratory (1-3)**

Prereq: PHYS 305 and perm. Repeated enrollment. Telescope observations and other laboratory studies dealing with astronomy.

### **401 Stellar Astrophysics (3)**

Prereq: 305, MATH 340, MATH 440. The physics of stellar atmospheres and interiors. Mathematical treatments of radiative transfer, hydrodynamics, and stellar structure; stellar atmospheres and spectra; stellar interiors; and nuclear energy sources. Stellar evolution, red giant stars, pulsating variables; physics of degenerate gases, white dwarfs, neutron stars, pulsars, black holes.

### **402 Galactic and Interstellar Astrophysics (3)**

Prereq: 305, MATH 340 and 440. Structure and evolution of the Milky Way galaxy and the interstellar medium. Stellar populations and orbits of stars in the galaxy; galactic dynamics, evolution of the galactic disk and star clusters. Physics of the interstellar gas, absorption and emission processes, HI and HII regions, molecular clouds. Hydrodynamic instabilities, star formation; supernova explosions and shock waves.

### **403 Extragalactic Astrophysics and Cosmology (3)**

Prereq: 305, MATH 340 and 440. Physics of galaxies and evolution of the universe. Dynamics of galaxy structure, formation, and interaction. Dark matter. Active galactic nuclei, radio galaxies, and quasars. Galaxy clusters and large-scale structure. Cosmological distance measurements, expansion of the universe. Introduction to general relativity; cosmological models, observational tests, cosmic microwave background. Primordial nucleosynthesis.

### **410 Observational Astrophysics (3)**

Prereq: 305. Modern observational techniques and instrumentation. Planning and execution of observational programs; data acquisition, reduction, and analysis; presentation of scientific results. 2 lec, 2 lab.

### **450 Studies in Astronomy (1-3, arranged)**

Prereq: 305 and perm.

## Physical Science (PSC)

### **100 Survey of Astronomy (4) (2N)**

General introduction to astronomy, with emphasis on the structure of the universe beyond our solar system. Topics (chosen by instructor) may include historical astronomy, the sun, stars and galaxies, interstellar matter, black holes, the "Big Bang" theory, and the evolution of the universe. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100. 4 lec.



**100D Moons and Planets: The Solar System (4) (2N)**

General introduction to astronomy, with emphasis on our solar system and other planetary systems. Topics (chosen by instructor) may include historical astronomy, the sun, the surfaces, interiors, and atmospheres of the planets, comets, asteroids and meteor impacts, planets around other stars, and the origin of life. No prereq, but familiarity with basic algebra and geometry is beneficial. Also listed as ASTR 100D. 4 lec.

**101 Physical World (4) (2N)**

Prereq: no credit if 101L. Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec.

**101L Physical World (5) (2N)**

Prereq: no credit if 101. Designed for nonscience majors. Fundamental ideas of measurement, motion, energy, electricity and magnetism, heat, atomic and nuclear physics. Introduction to relativity and quantum phenomena. 4 lec, 2 lab.

**105 Color, Light, and Sound (4) (2N)**

Prereq: no credit if 105L. Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec.

**105L Color, Light, and Sound (5) (2N)**

Prereq: no credit if 105. Designed for nonscience majors. Physical nature of light and sound including transmission, absorption, reflection, interference, and resonance. Applications include analysis of musical instruments, acoustics, optical systems, perception of color and sound. 4 lec, 2 lab.

**111 The Metric System (1)**

Introduction to International (Metric) System of Units (SI) through lecture and laboratory experience. Topics include: history of and rationale for SI; SI and its rules for use; metric computation and conversion techniques. Not offered on Athens campus.

**140 Observational Astronomy Laboratory (1) (2N)**

Experience with telescopes and locating stars, planets, and deep-sky objects in the night sky. Also covers major constellations, seasonal variations, lunar cycles, and, when appropriate, eclipses and comets. Meets at night only. Also listed as ASTR 140. 2 lab.

**200 Introduction to Planetary Science (3) (2S)**

Prereq: 4 hrs PSC or GEOL or perm; Math 113 or equiv; no credit for both ASTR 200 and PSC 200. An introduction to the physical processes behind the formation and evolution of planets, moons, asteroids, and comets. Topics will include formation of the Solar System, planetary atmospheres and interiors, volcanism, meteor impacts, and cratering.

**205 Life on Other Worlds? (3) (2N)**

Prereq: 4 hrs PSC, MATH 113 or equiv; no credit for both ASTP 205 and PSC 205. An exploration of ideas relating to the possibility that life exists elsewhere in the universe, both on planets and moons within our solar system, and within other planetary systems. The course begins by considering our planet's formation and the conditions which may have led to life appearing here, then moves outward.

**Physics (PHYS)****201 Introduction to Physics (5) (2N)**

(fall, winter) 1st course in physics, open to students from all areas. Students should have high school level algebra and trigonometry, but no calculus required. Recommended for students in liberal arts, architecture, industrial technology, geological sciences, plant biology, and premedicine. Mechanics of solids and liquids. No credit for 201 after 251. 3 lec, 2 lab, 1 recit.

**202 Introduction to Physics (5) (2N)**

Prereq: 201 or 251. (winter, spring) No credit for 202 after 252 or 262. Continuation of 201. See 201 for description. Includes electricity, magnetism, heat, thermodynamics, waves, and sound. 3 lec, 2 lab, 1 recit.

**203 Introduction to Physics (5) (2N)**

Prereq: 202 or 252 or 262. (spring, fall) No credit for 203 after 253. Continuation of 201 and 202. See 201 for description. Includes light, relativity, quantum, atomic, and nuclear physics. 3 lec, 2 lab, 1 recit.

**210 Physics Seminar (1)**

Prereq: physics major or perm. Provides overviews of classical mechanics, relativity, and contemporary physics. Films and current science news will be used to search for student interest in future study.

**251 General Physics (5) (2N)**

Prereq: C- or better in MATH 263A or 263B or 266A. Classical physics with calculus and vectors. Newtonian mechanics, rotational dynamics, gravitation. 3 lec, 2 lab, 1 recit.

**253 General Physics (5) (2N)**

Prereq: PHYS 251 and MATH 263B or 266B. Classical physics with calculus and vectors. Fluids, simple harmonic motion, wave mechanics and phenomena, thermodynamics, electrostatics. 3 lec, 2 lab, 1 recit.

**253 General Physics (5) (2N)**

Prereq: 252. Classical physics with calculus and vectors. Capacitance, electric current and circuits, magnetism and magnetic fields, electric induction, A.C. circuits, electromagnetic waves, geometrical optics, interference, and diffraction of light. 3 lec, 2 lab, 1 recit.

**254 Contemporary Physics (4)**

Prereq: 253 or EE 321. Introduction to relativity and quantum theory: selected topics in atomic, solid state, nuclear, particles, and cosmology.

**262 General Physics with Biological Applications (5) (2N)**

Prereq: 251 or (201 and (MATH 263A or MATH 266A)). Classical physics with calculus, emphasizing biological and medical applications. Topics include thermodynamics, waves, sound, electricity, and magnetism. 3 lec, 2 lab, 1 recit.

**270 Special Studies (1-4)**

Prereq: perm. Special studies in physics under supervision of faculty member.

**272 Electronics Laboratory (2)**

Prereq: 253 and phys major or perm. (winter) Circuit analysis, electronic measurements, semiconducting devices and instrumentation from DC to microwaves. 4 lab.

**273 Electronics Laboratory (2)**

Prereq: 272 and phys major or perm. (spring) Circuit analysis, electronic measurements, semiconducting devices, and instrumentation from DC to microwaves. 4 lab.

**297T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (fall) 1st-yr tutorial studies in physics.

**298T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (winter) 1st-yr tutorial studies in physics.

**299T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (spring) 1st yr tutorial studies in physics.

**303 Computer Simulation Methods in Physics (4)**

Prereq: phys major or perm. Introduction to scientific programming (e.g., Java, C++, etc.), particularly to the methods of computer simulations, with a special emphasis on problems in physics. 2 lec, 4 lab.

**311 Mechanics (4)**

Prereq: 253 or 315; MATH 340 (fall) Fundamentals of physical mechanics using vector analysis and ordinary differential equations. Particle dynamics, accelerating reference systems, central forces and celestial mechanics.

**312 Mechanics (4)**

Prereq: 311. (winter) Continuation of 311. Many-particle systems, rigid body dynamics, Lagrangian methods, and small oscillations.

**351 Modern and Quantum Physics (4)**

Prereq: 253. Introduction to relativity and quantum theory. Particle and wave propagation, 3-dimensional hydrogen atom.

**352 Modern and Quantum Physics (4)**

Prereq: 351. Quantum effects, nuclear and particle physics, statistical physics, molecular and solid state physics; astrophysics, general relativity, and cosmology.

**371 Intermediate Laboratory (Electrons) (2)**

Prereq: 254 or 352. Fundamental experiments on electron properties including charge and mass, wave properties, atomic binding, spin, and conduction. 4 lab.

**372 Intermediate Laboratory (Photons) (2)**

Prereq: 254 or 352. (winter) Experiments in optics, lasers, X-rays and spectroscopy. 4 lab.

**373 Intermediate Laboratory (Nucleons) (2)**

Prereq: 254 or 352. (spring) Nuclear decay modes and  $\alpha$ ,  $\beta$ ,  $\gamma$ -decay spectroscopy. Nuclear reactions and scattering. Principles of operation of  $\alpha$ ,  $\beta$ ,  $\gamma$  and neutron detectors and data acquisition systems. 4 lab.

**397T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (fall) 2nd-yr tutorial studies in physics.

**398T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (winter) 2nd-yr tutorial studies in physics.

**399T Physics Tutorial (1-15)**

Prereq: Honors Tutorial College students only. (spring) 2nd-yr tutorial studies in physics.

**411 Thermodynamics (4)**

Prereq: 253, MATH 340. (fall) 1st and 2nd laws of thermodynamics, phase changes and entropy. Temperature, thermodynamic variables, equations of state, heat engine. 3 lec, 1 rec.

**412 Kinetic Theory and Statistical Mechanics (4)**

Prereq: 411. (winter) Kinetic theory, transport phenomena of gases, and introduction to classical and quantum statistics. 3 lec, 1 rec.

**414 Dynamic Meteorology I (4)**

Prereq: 411, MATH 340, 440, 441. Basic conservation laws, elementary fluid dynamics, circulation and vorticity. Mathematics related to coordinate systems related to meteorology, thermodynamics of the atmosphere.

**415 Dynamic Meteorology II (4)**

Prereq: 414. Continuation of 414. Energy balance in the atmosphere, thermal physics of the atmosphere. Synoptic scale motions, atmospheric oscillations, baroclinic instabilities, mesoscale circulation, numerical methods. Special topics in dynamical meteorology.

**420 Acoustics (3)**

Prereq: 312, MATH 340, or perm. (spring, odd yrs) Vibration, sound radiation, sound propagation, and practical aspects of sound. 3 lec.

**423 Geometrical and Physical Optics (4)**

Prereq: 253, MATH 441, or perm. Reflection, refraction, diffraction, lenses, polarization, birefringence, interference, coherence, and selected introductory topics in modern optics. 4 lec.

**427 Electricity and Magnetism (4)**

Prereq: 253, MATH 340 and 440. (fall) Circuits and electric and magnetic fields. Topics on field sources, potentials, Gauss' law, polarization and dielectrics, magnetic induction. 3 lec, 1 rec.

**428 Electricity and Magnetism (4)**

Prereq: 427. (winter) Electric and magnetic fields. Topics on magnetic potentials, magnetic forces,

Faraday law, magnetic materials, capacitance and inductance, energy of charge and current distributions, time-varying current. 3 lec, 1 rec.

#### 429 Electromagnetism and Relativity (3)

Prereq: 428. (spring) Advanced topics in electromagnetism; Maxwell's equations and electromagnetic waves; special relativity and Lorentz transformation. 3 lec.

#### 431 Electronics Laboratory (3)

Prereq: perm. Experiments in electronic measurement techniques from simple A.C. and digital circuits to microprocessors and analyzers. 6 lab.

#### 451 Quantum Mechanics (4)

Prereq: 254, MATH 441 or perm. Classical background, early work, some observables and Hermitian operators, representations, symmetry and conservation laws, One-dimensional Schrodinger equation solutions in the position and momentum representation. Some problems in two dimensions. Philosophical issues and quantum paradoxes. 4 lec.

#### 453 Nuclear and Particle Physics (4)

Prereq: 254. (spring) Descriptive treatment of nuclear phenomena. Elementary theory of nucleon-nucleon interaction. Systematics of nuclear structure (shell model and collective model). Properties and interactions of fundamental particles. Devices and techniques of nuclear and high energy physics. 3 lec, 1 rec.

#### 470 Special Problems (1-4)

Prereq: 22 hrs. Supervised research problems of limited scope in experimental and theoretical physics.

#### 471 Solid State Physics (4)

Prereq: (254 or 352) and 412. (spring, even yrs) Fundamental properties of solid state of matter. 3 lec, 1 rec.

#### 475 Advanced Laboratory (1 hr per sec, max 3)

Prereq: 373 or perm. Wide selection of experiments from many areas of physics. Limit of 2 students per section. Student may select up to 3 different sections each qtr.

#### 477 Electronic Device Physics (4)

Prereq: 253. Physical principles of electronic devices. Overview of electronic transport in solids with application to diodes, bipolar transistors, and field-effect transistors. Heterostructures and low-dimensional physics and devices. Selected condensed matter phenomena with electronic device applications: resonant tunneling, Landauer formalism, single-electron physics, molecular electronics and spintronics. 4 lec.

#### 490H Honors Thesis (1-6)

Prereq: Departmental honors candidates only; perm of director of honors studies. Supervised research work in physics, astronomy, or engineering physics, intended for submission for undergrad honors.

#### 493 Undergraduate Seminar (1)

Prereq: jr. Important areas of current interest in field of physics, history of physics, development of ideas in physics, and other aspects of physics.

#### 497T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (fall) 3rd-and 4th yr tutorial studies in physics.

#### 498T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (winter) 3rd-and 4th yr tutorial studies in physics.

#### 499T Physics Tutorial (1-15)

Prereq: Honors Tutorial College students only. (spring) 3rd-and 4th yr tutorial studies in physics.

## Political Communication (POCO)

### 201 Introduction to Political Communication (3)

Overview of the realm of political communication, the interactions among political figures, political interests, the press, and the public. Against the background of the American political process, an investigation of those involved in that process, their relationships, and the role of mass and interpersonal communication in these relationships.

### 401 Seminar in Political Communication (5)

Prereq: 201 and completion of a min. of four courses from the program, and perm. A senior-level research course investigating selected aspects of political communication.

## Political Science (POLS)

### 101 American National Government (4) (25)

Constitutional basis and development, political processes, institutions, and organization of American national government.

### 102 Issues in American Politics (4) (25)

Concerned with administration and policy-making processes of national government in selected areas, e.g., welfare, civil rights, defense, etc.

### 103 The United States in World Affairs (4) (25)

Introduction to major foreign policy problems confronting successive U.S. administrations in world affairs.

### 150 Current World Problems (4) (25)

Examines a number of the major political crises, problems, and issues confronting the contemporary world.

### 210 Principles of Public Administration (4) (25)

Introduction to role and operation of public agencies in American society. Examines organization of federal, state, and local bureaucratic systems, their interrelations, and their basic principles, functions, and tasks.

### 230 Comparative Politics (4) (25)

Introduction to dynamics, structures, and comparison of contemporary political systems and processes.

### 250 International Relations (4) (25)

Contemporary international system and major forces and conditions which affect current international politics. Special emphasis on role of conflict and need for peaceful conflict resolution.

### 270 Political Theory (4) (25)

Introduction to study of political theory: examination of selected political issues and theorists from philosophical perspective. Emphasis on developing one's own political values and theories.

### 301 The Politics of Law (5)

Prereq: 101. Introduces the study of law as a political process with special emphasis on courts, legal ideologies, violence, and the mobilization of rights claims in social and political conflict.

### 304 State Politics (4)

Prereq: 101, 102. Comparative analysis of state political systems. Emphasis on structure and process of policy making of states within federal context.

### 305J Writing on Political Science Topics (4) (1)

Prereq: jr, majors only. Writing course for political science majors. Focus is on studying and producing clear and persuasive writing about political issues.

### 306 Politics of Appalachia (5)

Prereq: 101 or perm. Introduction to Appalachia, its political patterns, and political problems such as politics of poverty and powerlessness. Includes examination of responses to these problems by various levels of government—national, regional, state, and local.

### 310 American Domestic Policy (4)

Prereq: 101, 102, or perm. Major issues in American domestic policy are discussed from a variety of perspectives. The origin, development, and current structures of economic and social policy will be discussed. An analysis of these policies from a free market as well as a Marxist perspective will be provided.

### 319 Gay and Lesbian Politics (4)

Prereq: soph. Exploration of emergence and ramifications of gay political activism in Western culture. Homosexuality is examined from vantage points of religion, psychology, law, and politics.

### 320 Urban Politics (4)

Prereq: 101, 102, or perm. Examination of role of values in urban politics focusing on their relationship to urban problems, structure and functions of municipalities, urban professionalism, and alternative urban arrangements.

### 323 Black Politics in the United States (4)

Prereq: 101 and 102 or perm. Appraisal of economic and institutional structure of American society through social doctrines, enunciated by black political theorists, that serve as inspiration and ideology for black political movements. Examines sociopolitical societies in various parts of Africa and interprets black political movements in cultural, philosophical, ideological, and technological terms. Not open to those who have had AAS 323.

### 331 Politics in Western Europe (4) (25)

Government and politics in several West European nations.

### 333 Politics in Russia and Former Soviet Union (4)

Introduction to political development, ideology, institutions, and contemporary politics of the former U.S.S.R.

### 340 The Politics of Developing Areas (4) (2C)

Major theories and problems of political, sociocultural, and economic development in new states of Asia, Africa, and Latin America, with special emphasis on heritage of colonialism, struggle for independence, and political adjustments to rapid social and technological change.

### 342 East Asia in World Politics (4)

Prereq: 230 or 250 or perm. Examines the evolution of East Asia in world politics in the postwar era, including both the historical antecedents and alternative theoretical perspectives, as well as a variety of contemporary political, economic, and security issues related to this region.

### 354 American Foreign Policy (4)

Prereq: 103 or perm. Consideration of problems involved in formulation and execution of foreign policy. Particular emphasis on contemporary problems of American policy makers.

### 371 Plato, Aristotle, and Pre-Modern Political Thought (4)

Prereq: not open to fr. Major figures and basic concepts characteristic of political thought in ancient and medieval periods. Emphasis on original works of Plato, Aristotle, St. Augustine, St. Aquinas and on developing one's own political values and theories.

### 372 Modern Political Thought (4)

Prereq: not open to fr. Basic philosophic conceptions of modern nation state. Utilizing original works, evolution of nation state traced through philosophical literature from its Renaissance origins. Attention focused on both formative and critical perspectives, such as those of Machiavelli, Rousseau, and Emma Goldman with emphasis upon evaluation of norms associated with modern state.

**373 Contemporary Political Thought (4)**

Prereq: not open to fr. 19th- and 20th-century political theory. Focus on such contemporary philosophical and political issues as emergence of European socialist tradition, origins of human aggression, and human alienation. Attention given to selected theorists such as Marx, Freud, Gandhi, M. Friedman, and M. Harrington.

**374 Great Jurists (4)**

Prereq: not open to fr. Analysis of life, legal writings, and thought of prominent jurists such as Taney, Frankfurter, Harlan, Marshall, Douglas, and Learned Hand.

**390 Political Workshop (10-15)**

Prereq: 101 and perm. (fall, even years)  
Intensive analysis of political organizations and campaigning combined with field experience in campaigning.

**401 American Constitutional Law (4)**

Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on judicial review, economics, race, and gender.

**402 American Constitutional Law (4)**

Prereq: 16 hrs POLS, including 301. Analyzes the politics of American constitutional law with special focus on abortion, censorship, and surveillance.

**404 Civil Liberties (4)**

Prereq: 270 and 401 or 402. Examination of selected civil liberties issues such as freedom of expression, human and political equality, rights of criminally accused, and rights of indigent.

**405 American Political Parties (4)**

Prereq: 11 hrs POLS. Origin, growth, organization, and methods of parties; suffrage, nominations, and elections; role of parties in democracy.

**406 Elections and Campaigns (4)**

Prereq: 101. Examines nature of voter and rationality of voter decisions; impact of campaigns and their influence on election outcomes; techniques used in political campaigns; and role of elections in American society.

**407 Politics of Urban Development (4)**

Prereq: 320. Focuses on the causes and consequences of economic development politics and policies in urban America and the multiple facets of urban development.

**408 Urban Public Administration (4)**

Prereq: 320 or perm. Examines administration of urban programs. Focuses on agency-client relationships, professionalism, and public delivery.

**409 Criminal Procedure (5)**

Prereq: 11 hrs POLS or perm. Role, function, and problems of American judicial, prosecutory, policing, and correctional systems in political process. Crime and law as functions of social and political systems. Examination of relationship of law and social change in industrialized, urbanized, and technical society.

**410 Public Policy Analysis (4)**

Prereq: 12 hrs POLS, including 102. Analysis of policy process, formulation, implementation, and evaluation. Examines policy areas such as energy, health, economic development.

**412 Public Personnel Administration (4)**

Prereq: 11 hrs POLS. Philosophy, problems, and procedures of public personnel management: recruitment, training, promotion policies, position classification, and employer-employee relations.

**413 Administrative Law (4)**

Prereq: 11 hrs POLS. Organization, functions, and procedures of selected national regulatory agencies, principles affecting administrative discretion, administrative power over private rights, enforcement, and judicial control of administrative decisions. No credit if BUSL 415.

**414 Organizational Theory and Politics (4)**

Prereq: 210. Examination of public organizations. Presents major theories of organizations in public administration.

**415 The American Presidency (4)**

Prereq: 11 hrs POLS. Analysis of office of national chief executive and its place in American political system. Attention given to constitutional status and powers, functional development, and interrelationship of person and office.

**416 Legislative Processes (5)**

Prereq: 11 hrs POLS. Explores legislative process and policy, primarily at national level. Examines influence of interest groups, constituencies, political parties, executive branch, and organizational structure of Congress on legislative outcomes.

**418 Interest Groups in American Politics (4)**

Prereq: 11 hrs POLS. Organization and tactics of pressure groups and their impact on policy-making process.

**420 Women, Law, and Politics (4)**

Prereq: jr or perm. Focuses on political and legal position of women in U.S. Covers women's legal status, feminist movement, current issues, and public policy responses concerning women's position such as Equal Rights Amendment, marriage and divorce laws, affirmative action, abortion, and pay equity.

**421 The Politics of Law and Sexuality**

An exploration of the regulation of sexuality in the U.S. from legal and theoretical perspectives. Cases and other materials will address a variety of issues including the right to privacy, pornography, the right to marry, and gays in the military.

**422 Political Elites and Leaders**

Exploration of the phenomenon of elites and leadership in global perspective, including contemporary Asia, Africa, and Latin America.

**424 Intergovernmental Relations in the U.S. (4)**

Prereq: 210 or perm. Examines intergovernmental fiscal patterns between federal-state-local governments and impact of fiscal transfers on local budgeting and finance administration. Includes analysis of nonfiscal patterns such as federal program requirements, their impact on local administrative processes, and other pressures on local budgeting and finance.

**425 Environmental and Natural Resource Politics and Policy (4)**

Examines the institutional context and political dynamics of environmental and natural resource policy making in the United States. Topics include history of the U.S. environmental movement, major players and arenas of influence in environmental politics, and current policy issues including public lands, endangered species, solid and hazardous waste, and air pollution.

**426 Politics of Contemporary Environmental Movement (4)**

Examines the major segments of contemporary U.S. environmental movement. Topics include the professionalization, activities, strategies, and criticisms of the mainstream environmental groups, radical environmentalism; grassroots environmentalism and gender, environmental justice and race.

**427 Formulation of American Foreign Policy (4)**

Prereq: 103 or 354 or perm. Covers institutional and administrative as well as political and more informal processes whereby foreign policy decisions are formulated and implemented in U.S.

**429 Comparative Public Administration (4)**

Prereq: 210 or 230 or perm. Examines and compares characteristics of public administrative systems in various national political settings.

**432 Policy Making in Russia (4)**

Prereq: 11 hrs POLS, including 333 or course in Soviet history or perm. Examination of how Russian leadership deals with number of major domestic problems.

**433 Russian Foreign Policy (4)**

Prereq: 11 hrs POLS, including 333 or perm. Analysis of foreign policies of the former U.S.S.R. Historical, ideological, strategic, and other influences covered.

**434 Government and Politics of Latin America (4)**

Prereq: jr or sr. Political systems of Latin America. Emphasis on power relationships and political obstacles to change in contemporary Latin America.

**435 Revolution in Latin America (4)**

Prereq: jr or sr. Revolution as theoretical concept and as practical reality in several Latin American countries. Special emphasis on Cuban and Nicaraguan revolutions.

**438 Government and Politics of Germany (4)**

Prereq: 11 hrs POLS or perm. Major political processes, personalities, and institutions of contemporary West Germany, including key foreign policy issues.

**439 Politics in France (4)**

Prereq: 11 hrs POLS or perm. Major political processes, personalities, ideas, and institutions of modern France.

**441 African Politics (4)**

Prereq: 8 hrs POLS or history. Development and structure of modern African states with emphasis on political processes in tropical Africa.

**442 Middle East Politics (4)**

Prereq: 12 hrs POLS including 230. Examination of the major issues and dilemmas in contemporary Middle Eastern politics including the clash of religions and nationalisms, security and stability in the Persian Gulf, the Arab-Israeli conflict, efforts at democratization, and the status of women.

**445 Government and Politics of Japan (4)**

Prereq: 11 hrs POLS or Asian history. Political institutions and processes of Japan with emphasis on developments since 1945.

**446 Government and Politics of China (4)**

Prereq: 11 hrs POLS or Asian history. Political institutions and processes and major political developments in modern China.

**447A Government and Politics of Southeast Asia (4)**

Prereq: 11 hrs POLS or history. Introduction to the political institutions and processes of contemporary Southeast Asia.

**447B Government and Politics of Southeast Asia (4)**

Prereq: 11 hrs POLS or history. Continuation of 447A but can be taken independently. More in-depth study of politics in selected countries of Southeast Asia.

**450H Honors in Political Science (5, max 20)**

Prereq: acceptance in departmental honors program. Seminar on selected topics in political science and preparation and research for writing an honors thesis.

**452 Advanced International Relations (4)**

Prereq: 250 or perm. In depth analysis of various aspects of international relations including major theoretical approaches to study of international relations.

**455 International Law (4)**

Prereq: 250 or perm. Role of international law in interstate relations and international organization.

**456 International Organizations (4)**

Prereq: 250. Analysis of nature, development, structure, and functions of international organizations with particular emphasis on United Nations.

**457 National Security in the Post-Cold War World (4)**

Prereq: 12 hrs POLS including 250. Introduction to the concepts and problems of attaining international security in an ever-changing world. Overview of the traditional and new sources of state insecurity and consequences of the quest by nations to attain security in the international system.

**459 Arms Control and Disarmament (4)**

Prereq: 11 hrs POLS or perm. Examines military force in nuclear age with special emphasis on strategy of nuclear deterrence; history of disarmament negotiations since WWII; arms control agreements; and case studies in current U.S.–Russian arms control negotiations.

**463 The United States and Africa (5)**

Prereq: 103 or 250 or 354. Origins and nature of American relations with African states, with emphasis on current American interests and policy.

**464 Africa and the OAU (3)**

Coreq: POLS 464W. Examination of the relationship between African states and the Organization of African Unity. Includes foreign policies of selected African states and consideration of current issues in Africa. Includes participation in the annual Inter-University Simulation of the OAU.

**464W Simulation Portion of POLS 464 (2)**

Coreq: POLS 464.

**468 Nonprofit Fundraising (4)**

Prereq: jr. An introduction to the tradition of philanthropy and fundraising in the United States. Examines practical, moral, and legal issues involving fund development and the fundraising profession. Provides students with an opportunity to apply fundraising techniques and practices to enhance the financial commitment of individuals, corporations, foundations, and government to “real-life” development projects

**475 Studies in Political Thought (5)**

Prereq: 1 course in political thought or perm. Selected topics in political theory; e.g., anarchism, socialism, democratic theory, technology and politics, etc. Consult department for information pertaining to current course description and schedule.

**476A American Political Thought (4)**

Prereq: 11 hrs POLS or history. Origin and development of political ideas from colonial period through slave controversy.

**476B American Political Thought (4)**

Prereq: 11 hrs POLS or history. Continuation of 476A but can be taken independently. Begins with Social Darwinism and concludes with contemporary political ideas in America.

**477 Legal Theory and Social Problems (4)**

Prereq: 12 hrs POLS or perm. Examination of legal reasoning and normative values of judges, lawyers, legal theorists, and administrative agencies in shaping legal solutions to contemporary social problems. Emphasis on developing one's own political, legal, and philosophical values.

**478 Feminist Political Theories and Movements (5)**

Prereq: jr or perm. Explores issues of power, powerlessness, oppression, and transcending oppression. Views feminism as human rights movement. Topics: origins and history of sexism and feminism, classic treatises of feminist political theory, contemporary theories from conservative to anarchist, visions of post-sexist futures, movement strategies and tactics, practical applications.

**479 Latin American Political Thought (4)**

Prereq: 11 hrs POLS. Evolution of Latin American political thought from conquest to present. Major emphasis on 20th-century movements such as Democratic Left, Progressive Catholic Left, and Marxist Revolutionary Left.

**481 Modern Political Analysis (4)**

Prereq: 20 hrs POLS or perm. Examination of problems of knowledge in social sciences with particular emphasis on political science. Analysis of major theories or approaches developed in political science recently.

**482 Quantitative Political Analysis (5)**

Prereq: 481 or perm. Designed to show relevance of scientific research techniques to study of politics.

**483 Statistical Package for the Social Sciences (4)**

Prereq: PSY 121 or POLS 482 or equiv. Designed to introduce social science students, with some statistical background, to the use of the microcomputer for data analysis. Although the focus is the structure and syntax of SPSS/PC, fundamental data analysis problems will be discussed in the context of computer applications.

**484 Management Skills for Public Administration (5)**

Prereq: jr. Practicum designed to introduce students to several management skills needed for success in public administration and to permit them to apply these skills in a classroom setting.

**486 Public Budgeting (4)**

Prereq: 210 or 411 or perm. Examines politics, techniques, and consequences of public budgeting processes at federal, state, and local levels.

**487 Financial Management in Government (4)**

Prereq: 210, 411 or equiv or perm. Examines financial aspects of state and local governments. Financial conditions of these governments discussed in conjunction with various actions governments take to deal with them.

**488 Public Dispute Resolution (4)**

Prereq: jr. Examines the field of alternative dispute resolution. Focus is on the dynamics and management of such public issues as facility siting, natural resource use, and community funding. Topics include conflict assessment, negotiation, mediation, and the politics of alternative dispute resolution.

**489 Nonprofit Management (4)**

An introduction to the nonprofit sector and its role in society, the economy, and the delivery of human services. Includes an overview of principle management functions as each applies to nonprofit organizations.

**490 Studies in Political Science (3–5)**

Prereq: 11 hrs POLS or perm. Intensive study of special topics in field of political science, including American government and politics, comparative government, international relations, political theory, and public administration.

**492A–E Research in Political Science (1–5)**

Prereq: 18 hrs POLS; max 20 hrs in 492ABCDE; max 10 hrs in one course. Research in selected subfields of political science; international relations, American politics, comparative government, public administration, political theory. See quarterly schedule of classes for registration information.

**494A–Z Workshops in Selected Topics (1)**

Prereq: perm. Workshop in selected topics.

**495 Public Affairs Internship (1–15)**

Prereq: jr or above, POLS major, or perm. Provides qualified students with opportunity to learn through working in selected public and private agencies.

## Professional Communication (PRCM)

**150 Business Communication Basics (4)**

Prereq: BA 100A. Introduces the basic business communication principles and practices and sets the communication standards in preparation for real world workplace experiences. Business-

realized cases are utilized for research, writing, and speaking activities. Some attention is given to early preparation for internship research.

**325J Professional Communication (4) (1J)**

Prereq: jr or sr, Tier I English. Provides opportunities to practice and improve written and spoken communication skills, both individual and collaborative, which are appropriate for career success. Utilizes strategic managerial communication skills in analyzing business problems or situations and choosing the appropriate communication processes, products, or events to meet organizational needs.

## Psychology (PSY)

**101 General Psychology (5) (25)**

Introduction to psychology. Survey of topics in experimental and clinical psychology including physiological bases of behavior, sensation, perception, learning, memory, human development, social processes, personality, and abnormal behavior.

**120 Elementary Statistical Reasoning (4) (1M)**

Prereq: Math placement level I or higher or MATH 101 or 102. Introduction to research methodology and descriptive and inferential statistics, emphasizing the development of practical reasoning skills necessary for the comprehension and critical evaluation of statistical information typically encountered in everyday life. No credit for both 120 and any of the following: MATH 250, MATH 250B, MATH 251, PSY 121. No credit if already credit for PSY 221 or QBA 201; no credit toward psychology major.

**190 Workshops in Applied Psychology (1–2, max 5)**

Workshops on specific topics in applied psychology, offered yearly, carrying predetermined alphabetical designations (e.g., 190A). Students seeking academic credit must complete satisfactorily written project determined by instructor. Graded credit/no credit.

**201 Sensation and Perception (4)**

Prereq: 101. Sensory and perceptual processes in vision, audition, somesthesia, gustation, olfaction, and kinesthesia. Theory and research on perceptual phenomena with an emphasis on visual and auditory modalities, including perception of objects, space, and events; effects of person variables on perception; perceptual development.

**203 Learning (4)**

Prereq: 101 and 120 or 221. Experimental investigation of classical and operant conditioning, discrimination learning, generalization, related phenomena.

**221 Statistics for the Behavioral Sciences (5) (1M)**

Prereq: Math placement level 2 or higher or MATH 113. Introduction to descriptive and inferential statistics with emphasis on inferential statistics. No credit for both 221 and any of the following: MATH 251, PSY 121, QBA 201.

**226 Research Methods in Psychology (4)**

Prereq: 101 and 221. Training in scientific methods and techniques of modern experimental psychology with individual reports of experiments.

**233 Psychology of Personality (4)**

Prereq: 101. Development and organization of personality, with evaluation of major theoretical viewpoints; research on personality structure, dynamics, and change.

**261 Survey of Industrial and Organizational Psychology (4)**

Prereq: 101 and 120 or 221 or QBA 201. Survey of industrial and organizational psychology; emphasis on application of psychological theories and research to organizational situation.

**273 Child and Adolescent Psychology (4)**

Prereq: 101. Behavior from infancy through adolescence. No credit awarded if HCCF 160 or EDEL 200 has been taken. Will not count toward requirements for Education majors.

**275 Educational Psychology (4)**

Prereq: 101. Applications of psychological theories and models to educational settings (emphasis on schools). Major topics include goals of education; cognitive, social, and affective development in children; cognitive and behavioral models of learning; motivation; individual differences; effects of social class, ethnicity, gender, and cultural deprivation on learning and development; tests and evaluation. Emphasis is on the role of teachers and parents as facilitators of learning and development. No credit awarded if EDCI 275 has been taken.

**304 Human Learning and Cognitive Processes (4)**

Prereq: 12 hrs PSY including 101 and 221. Theoretical and experimental investigations of learning in human beings: concept learning, problem solving, memory, motor skills, and language.

**305 Human Memory (4)**

Prereq: 12 hrs PSY including 101 and 225. Structure and processes of human memory, including historical models of memory, contemporary theories of memory, techniques used in memory experimentation, memory stores, memory codes, mnemonic devices, memory failures, neurological basis of memory and memory failures, and computer models of memory.

**307 Psycholinguistics (4)**

Prereq: 9 hrs PSY including 101 or perm. How people produce, understand, and acquire language; psychological and linguistic theories. Emphasis on use of language.

**308 Human Judgment and Decision Making (4)**

Prereq: 225. Descriptive and prescriptive models of human judgment and decision making. Topics include how people understand uncertainty, and how they learn the relationships that enable them to make predictions, make decisions when the outcomes of these decisions are uncertain, and perceive risks. No credit awarded if MGT 430 has been taken.

**310 Motivation (4)**

Prereq: 12 hrs PSY including 101. Survey of theories of motivation, with emphasis on human motivation.

**312 Physiological Psychology (4)**

Prereq: 101. Physiological mechanisms involved in perception, movement, motivation, learning, emotions, and mental disorders. Anatomy, physiology, and chemical activities of cells in the nervous and endocrine systems. Research approaches for studying interactions between physiology and behavior.

**314 Comparative Psychology (5)**

Prereq: 9 hrs PSY including 101. Behavior of animals across phylo-genetic scale. Interaction of genetics, hormones, learning, etc., in development of behavior. Lecture, lab, field trips, and naturalistic movies.

**315 Behavior Genetics and Individual Differences (5)**

Prereq: 9 hrs PSY including 101. Extensive survey of individual differences and their relationship to genetic factors. Topics include chromosomal abnormalities, inborn errors of metabolism, genetic and prenatal screening, behaviors in infants, genetics and intellectual differences, psychopathology and genetics, racial differences, and continuing evolution of behavior.

**321 Advanced Statistics for the Behavioral Sciences (5)**

Prereq: 101 and 221 (226 recommended). Continuation of 221. Statistical techniques through multi-factor analysis of variance and multiple regression analysis. Integration of

experimental design with statistical analysis. Does not apply to Arts and Sciences social sciences or natural sciences requirement.

**327 Human Psychophysiology (4)**

Prereq: 101 and 120 or 221. Relationships between psychological variables and physiological events in humans. Measures of cardiovascular, electrodermal, muscle, respiratory, and central nervous system activity; recording techniques; research findings; and applications such as biofeedback and lie detection.

**332 Abnormal Psychology (4)**

Prereq: 9 hrs PSY including 101. Behavior disorders, their cause and effects on person, family, and society.

**335 Environmental Psychology (5)**

Prereq: 9 hrs PSY including 101. Natural and built environments as factors of human behavior, cognition, and choice. Research concerning environmental design and evaluation from psychological standpoint emphasized.

**336 Social Psychology (4)**

Prereq: 101 and 120 or 221. Theory and research on the ways that people think about, influence, and relate to one another. Specific topics include attitudes and behavior, social perception and cognition, conformity, persuasion, group influence, aggression, attraction, and helping behavior.

**337 Social Psychology of Justice (4)**

Prereq: 9 hrs PSY including 101 (336 recommended). Theory and research on the interface of psychology and the legal system (with an emphasis on social psychology). Specific topics include dilemmas faced by psychologists in the legal system; legality vs. morality; the socialization, training, and ethics of lawyers and police; perception memory and error in eyewitness testimony; hypnosis; lie detection and confessions; rights of victims and accused; rape and rapists; arrest and trial; jury selection; jury dynamics and deliberations; insanity and the prediction of dangerousness; sentencing; death penalty; rights of special groups; theories of crime.

**341 Tests and Measurements (4)**

Prereq: 12 hrs PSY including 101 and 221. Tests, psychophysical methods, scaling techniques, and questionnaires. Basic criteria including reliability, homogeneity, and validity.

**351 Introduction to Clinical and Counseling Psychology (4)**

Prereq: 12 hrs PSY including 233 or 332. Diagnostic and remedial procedures and resources; professional problems, duties, skills, and interprofessional relationships.

**361 Advanced Organizational Psychology (4)**

Prereq: 261. Study of behavior in organizations with emphasis on applying psychological research and principles to understanding structure and process of (primarily work) organizations.

**362 Personnel Psychology (4)**

Prereq: 261. In-depth coverage of topics in personnel psychology including job analysis, organizational entry, and training and evaluation of personnel.

**374 Psychology of Adulthood and Aging (4)**

Prereq: 9 hrs PSY including 101 (273 recommended). Behavioral change and continuity over adult years through old age. Emphasis on interaction of psychological, sociocultural, and biological variables as they contribute to behaviors of aging individual from perspective of developmental framework.

**376 Psychological Disorders of Childhood (4)**

Prereq: 101 and 223 or HCCF 160 or EDEL 200. Characteristics, etiology, and treatment of abnormal child behavior: developmental anxiety, depressive eating, hyperactivity, conduct, and psychophysiological disorders.

**378 Psychology of Gender (4)**

Prereq: 9 hrs PSY including 101. Sex differences in physical characteristics, abilities, personality, and social behavior; development of sex roles; sex roles across the life span; relationships of sex, gender, and sex roles to interpersonal functioning, work and psychological disorders.

**380 Psychology of Health and Illness (4)**

Prereq: 12 hrs PSY including 101. Theory and research on the psychological aspects of physical health and illness; interrelationships of behavior, emotion, stress, lifestyle, and illness; psychological factors in disorders such as hypertension, coronary artery disease, headache, asthma, and immune disorders; applications and effectiveness of psychological interventions.

**390 Research in Psychology (1–5, max 15)**

Prereq: 226 and written perm. Supervised independent research on predefined problem. Graded credit/no credit.

**418 History and Systems of Psychology (4)**

Prereq: 20 hours PSY. Comparative, historical review of major conceptual orientations in psychology within last century. Includes analysis of important philosophy of science issues bearing on psychology, such as nature of theory, observation, explanation, and some specialized topics especially pertinent to psychology.

**430 Psychoactive Drugs: Therapeutic Agents and Drugs of Abuse (4)**

Prereq: 312 or 332 or 376 or BIOS 171. Patterns of use and abuse of psychoactive agents, behavioral and physiological effects of drugs; etiological factors in drug abuse; treatment of drug abuse; use of drugs in the treatment of mental disorders; comparative effectiveness and integration of pharmacological and psychological interventions; research methods and problems in conducting research.

**470 Prenatal Influences on Development (4)**

Prereq: PSY 273 or EDEL 200 or HCCF 160; and PSY 312 or 1 biology course. Prenatal and perinatal influences on development, including the effects of genetic errors, drugs, nutrition, diseases, maternal behaviors, prematurity, and birthing techniques.

**489 Fieldwork in Psychology (1–5, max 5)**

Prereq: written perm. Independent fieldwork as volunteer or employee in work directly related to psychology. Arrangements for course credit must be approved by psychology faculty member before fieldwork begins. Contact assistant chair for under-grad affairs or other faculty member to complete necessary forms. Graded credit/no credit.

**490 Seminars in Psychology (5)**

Prereq: dependent on seminar; perm required. Several seminars on specific topics in psychology offered yearly, carrying predetermined alphabetical designations (e.g., 490A). See *Schedule of Classes* for topics each qtr.

**491 Special Problems in Psychology (1–15)**

Prereq: written perm. Independent work on special problem with any psychology professor.

**492X Special Problems—Psychology (1–15)**

Prereq: Study Abroad Program, perm.

**496H Psychology Honors Seminar (3–5)**

Prereq: perm, admission to departmental honors program. Seminar on specific topics. See *Schedule of Classes* each qtr.

**497H Readings in Honors Work (1–4, max 10)**

Prereq: perm

**498H Honors Work in Psychology (1–4, max 10)**

Prereq: perm. Preparation for 499H

**499H Honors Work in Psychology (Thesis) (3–7, max 15)**

Prereq: perm

## Quantitative Business Analysis (QBA)

**201 Introduction to Business Statistics (4)**  
Prereq: MATH 163A pr 263A, MATH 250. Sampling plans, sampling distribution, decision analysis, estimation and hypothesis testing (one and two population tests), simple linear regression analysis, nonparametric statistical tests.

**491 Seminar (4)**  
Prereq: perm. Selected topics of current interest in quantitative business analysis area.

**497 Independent Research (1-4)**  
Prereq: perm. Research in selected fields of quantitative business analysis under direction of faculty member.

**498 Internship (1-4)**  
Prereq: perm.

## Real Estate Technology (REAL)

Real estate courses are available on the Athens campus through Lifelong Learning Programs and at the regional campuses through Continuing Education offices.

### 101 Real Estate Principles and Practices I (4)

Real property is basic resource with which real estate professionals work. Course includes, but is not limited to, land and its description, rights and interests in real estate, contract law and real estate contracts, title transfer, deeds, leases, financing and mortgages, taxes, home ownership, urban planning, brokerage operations, appraisal and value, applied real estate math, and Ohio requirements for real estate licenses.

**102 Real Estate Brokerage (4)**  
Prereq: 101 or perm. Expands on 101 and includes specialized fields of real estate, principal-agent relationship, listing principles and practices, closing principles and practices, sales contract, principles of economics and real estate appraising, property insurance, real estate finance, federal laws regulating real estate practice, mathematics in real estate, and other facets of real estate needed by real estate professional; Ohio licensing laws and requirements.

**103 Real Estate Law (4)**  
Prereq: 101. Includes all legal areas commonly concerned with typical real estate professional. Among topics covered are law of agency as applied to real estate brokers and sales personnel, law of fixtures, estates, conveyancing of real estate, mortgages and liens, license laws of Ohio, and zoning.

**201 Real Estate Appraising I (4)**  
Deals with appraisal theory, basic principles affecting value of real property; data accumulation and analysis of city, neighborhood, site, and property; applied techniques and estimating value from 3 approaches; building analysis, depreciation; entire range of appraisal process; and preparation based on field experience of preparing single-family residential appraisal report.

**204 Real Estate Finance (4)**  
Prereq: 101. Includes institutions, methods, instruments, and procedures involved in financing of real estate; nature and characteristics of mortgage loans, government influence on real estate finance, and nature of mortgage market. Effects of monetary and fiscal policies on real estate financing considered.

**221 Real Estate—Special Topics (4)**  
Prereq: 204. Special topics in real estate covered. Areas include professionalism, ethics, salesmanship, human relations, F.H.A. and V.A. financing. Real estate office, advertising, building construction and materials, current issues, and problems facing real estate professional also considered.

## Recreation and Sport Sciences

### Athletic Training (RSAT)

**128 Introduction to Athletic Training (2)**  
Introduction to prevention and care of athletic injuries. No credit if RSAT 129 or 140. 2 lec.

**140 Principles of Athletic Training (3)**  
Prereq: pre-athletic training major. (fall) An in-depth study of the principles of athletic training. 3 lec.

**145 Practical Aspects of Athletic Training (2)**  
Prereq: C or better in 140. (winter) Introduction of practical athletic training skills with emphasis on preventive and protective injuries. 2 lec, 1 lab.

**150 Prevention/Management of Athletic Injuries (3)**  
Prereq: C or better in 145. (spring) Techniques of prevention and management of athletic injuries and illnesses. 3 lec.

**180A Practical Applications of Athletic Training I (1)**  
Coreq: 140. (fall) The practical application course is the first course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

**180B Practical Applications of Athletic Training II (1)**  
Prereq: 180A. (winter) The practical application course is the second course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

**180C Practical Applications of Athletic Training III (1)**  
Prereq: 180B. (spring) The practical application course is the third course in a series of three designed to teach and provide basic athletic training clinical skills and techniques required by the entry-level student athletic trainer. 2 lab.

**240 Recognition and Evaluation of Athletic Injuries (4)**  
Prereq: 280B; BIOS 301 or 302. (winter) Advanced techniques in management and recognition of athletic injuries in lower body. 3 lec., 2 lab.

**245 Emergency Care of Athletic Injuries (3)**  
Prereq: 280B; PESS 227, 228; BIOS 301 or 302. (spring) Advanced course in emergency care designed for, but not limited to, athletic training majors. Hands-on experience allows the realization of proper emergency care. Experience reinforced with comprehension of related policies and procedures, as well as their application. 2 lab, 2 lec.

**280A Clinical Applications in Athletic Training I (1)**  
Prereq: C or better 150; 180C, major. (fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**280B Clinical Applications in Athletic Training II (1)**  
Prereq: 280A. (winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**280C Clinical Applications in Athletic Training III (1)**  
Prereq: 280B. (spring) The clinical application course is designed to provide the student with the understanding of advanced athletic

training applications and techniques used in the prevention and management of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**300 Recognition and Evaluation of Athletic Injuries II (4)**  
Prereq: C or better 240; 280C. (spring) Advanced techniques in management, assessment, and recognition of athletic injuries of the upper body. 3 lec, 2 lab.

**310 Therapeutic Exercise (5)**  
Prereq: C or better 300; 380A. (winter) Concepts and practices associated with the conditioning and reconditioning (rehabilitation) of athletic injuries. 4 lec, 2 lab.

**315 Therapeutic Modalities (5)**  
Prereq: C or better 310; 380B; PHYS 202. (spring) Principles and practical skills associated with therapeutic modalities used in the treatment and rehabilitation of athletic injuries. 4 lec, 2 lab.

**350 Independent Study (1-5)**  
Prereq: jr, perm. Selected individual case studies utilizing techniques and theories in rehabilitation of athletic injuries. Additional one-hour credit for oral presentation of written analysis. Case studies completed under direction of athletic training faculty.

**380A Clinical Applications in Athletic Training IV (1)**  
Prereq: C or better 240, 245; 280C. (fall) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**380B Clinical Applications in Athletic Training V (1)**  
Prereq: C or better 300, 350; 350A. (winter) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**380C Clinical Applications in Athletic Training VI (1)**  
Prereq: C or better 310; 380B. (spring) The clinical application course is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the evaluation and rehabilitation of athletic injuries. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**418A Instructional Experiences (1-15)**  
Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

**420 Administration of Athletic Training (3)**  
Prereq: 480A. (fall) Introduction to processes necessary for implementation, maintenance, and administration of athletic training programs. 3 lec.

**480A Clinical Applications in Athletic Training VII (1)**  
Prereq: C or better 315, 380C. (fall) The clinical application course series is designed to be the culminating clinical experience so to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.



**480B Clinical Applications in Athletic Training VIII (1)**

Prereq: 480A. (winter) The clinical application course series is designed to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**480C Clinical Applications in Athletic Training IX (1)**

Prereq: C or better 420; 480B. (spring) The clinical application course series is designed to be the culminating clinical experience so to provide the student with the understanding of advanced athletic training applications and techniques used in the therapeutic modalities and the administration of athletic training programs. Provides "hands-on" clinical skills necessary for the continued development of the student athletic trainer. 2 lab.

**490 Clinical Internship (1-16)**

Prereq: major, sr. Elective internship in sports medicine clinical facility. (Student may not earn more than 24 total credit hours in any combination of 280, 480, and 490.)

**Physical Education Activity (PED)**

These courses are for students wishing to gain competency in a physical activity. Courses are offered on a pass/fail basis. (Horseback courses are letter graded for students enrolled in the Equine Studies Program on the Southern campus.) While no limit overall has been set for repeats of PED courses, individual majors, schools, departments, and colleges may limit the number of repeat hours that will count toward graduation. For more information about the PED program and course descriptions, please see the School of Recreation and Sport Sciences Web site, <http://www.ohio.edu/rsps/index.htm>.

- 100 Basketball
- 101 Lacrosse
- 102 Softball
- 103 Volleyball I
- 104 Volleyball II
- 105 Ultimate Frisbee
- 110 Dance, Belly I
- 111 Dance, Belly II
- 112 Dance, Belly III
- 113 Dance, Country
- 114 Dance, Social
- 120 Aerobic Conditioning
- 121 Aerobic Dance
- 122 Circuit Fitness
- 123 Conditioning and Weight Training
- 124 Jogging
- 125 Physical Conditioning I
- 126 Physical Conditioning II
- 127 Physical Conditioning III
- 129 Bowling
- 130 Golf I
- 131 Golf II
- 132 Golf III
- 133 Handball I
- 134 Handball II
- 135 Racquetball I
- 136 Racquetball II
- 137 Tennis I
- 138 Tennis II
- 139 Tennis III
- 140 Aqua Aerobics

- 141 Diving I
- 142 Diving II
- 143 Scuba\*
- 144 Swimming I
- 145 Swimming II
- 146 Swimming III
- 147 Swimming IV
- 148 Swimming, Synchronized I
- 149 Swimming, Synchronized II
- 150 Swimming, Workouts
- 151 Water Polo
- 152 Water Skiing I\*
- 153 Water Skiing II\*
- 154 Water Skiing, Competitive\*
- 160 Broomball
- 161 Hockey
- 162 Skating I
- 163 Skating II
- 164 Skating, Figure I
- 165 Skating, Figure II
- 166 Horseback Saddle Seat I\*
- 167 Horseback Saddle Seat II\*
- 168 Horseback Saddle Seat III\*
- 170 Horseback Hunt Seat I\*
- 171 Horseback Hunt Seat II\*
- 172 Horseback Hunt Seat III\*
- 173 Horseback Hunt Seat IV\*
- 174 Horseback West I\*
- 175 Horseback West II\*
- 176 Horseback West III\*
- 177 Horseback West IV\*
- 178 Horseback Jumping I\*
- 179 Horseback Jumping II\*
- 180 Horseback Saddle Seat IV\*
- 182 Karate I
- 183 Karate II
- 184 Tae Kwon Do I
- 185 Tae Kwon Do II
- 186 Judo I
- 187 Judo II
- 190 Special Needs PE
- 191 Archery
- 192 Boating
- 193 Badminton
- 194 Horseback Trail Riding\*
- 195 Snow Skiing I
- 196 Snow Skiing II

\* Special Fee Added

**Physical Education and Sport Sciences (PESS)****100 The Student-Athlete Experience (1)**

Prereq: fr. only. (fall) Orientation for first-year student athletes that introduces them to campus resources in order to assist in the transition from high school to college. Introduces concepts related to time management and life skills through the NCAA CHAMPS/Life Skills Program. Presentations from various campus groups. 1 lec.

**103 Beginning Swimming (2)**

Basic swimming skills. 4 lab.

**104 Intermediate Swimming (2)**

Instruction in basic strokes and related aquatic skills at intermediate and advanced level. 4 lab.

**107 Modern Dance I (2)**

Prereq: sport sc or PE major. (fall) Basic principles of dance technique. Movement progressions involving relationships of time, space, and dynamics. 4 lab.

**109 Synchronized Swimming (2)**

Prereq: 104, intermediate swimming skill or perm. Focuses on basic principles of 104. Development of simple stunts, sculling, and modified strokes; experimentation in group and individual composition. 4 lab.

**110 Aqua Aerobics (2)**

Prereq: sport sc or PE major. Designed to help students develop knowledge, skills, and positive attitudes concerning fitness through aquatic exercises. Covers various forms of aquatic exercise, program components, and lap swimming. 4 lab.

**115 Rhythmics (2)**

Prereq: sport sc, PE, REC, or music therapy major. (fall) Practical approach to rhythm fundamentals through various dance forms. 4 lab.

**116 Social Forms of Dance (2)**

Prereq: 115. Intermediate skills in ballroom, round, mixers, couple, and contra dance. 4 lab.

**117 Folk and Square Dance (2)**

Prereq: 115. Introduces folk and square dance skills, and allows students majoring in physical education to develop competency in this area of dance. 4 lab.

**125 Human Movement and Fitness Perspectives (4)**

Introduces students to the basic concepts of human movement and fitness. Students will develop skills to analyze basic human movement as it applies to sport and fitness. Students will also learn the foundation of health related physical fitness, and how to integrate fitness activities into their lifestyles. 3 lec, 2 lab.

**141A Archery (2)**

Prereq: sport sc major. Increases archery skill of students majoring in sport sciences. 4 lab.

**141B Golf (2)**

Prereq: sport sc major. Increases golf skill of students majoring in sport sciences. 4 lab.

**201 Introduction to Sport Industry (3)**

Prereq: fr. or soph. (fall, winter) Introduction to the multiple facets of the sport industry. The knowledge gained in this course will provide a foundation for the future study of the industry. 3 lec.

**202 Introduction to Physical Education/Teacher Education (4)**

Prereq: fr. or soph. (fall, spring) Introduces prospective physical educators to the multiple methods of becoming an effective teacher for children in pre-kindergarten (age 3) through grade 12. Observation of and content development in early childhood, middle childhood, and adolescent and young adult physical education programs will be explored. 3 lec., 2 lab.

**203 Introduction to Exercise Physiology (3)**

Prereq: fr. or soph. Introduces students to the various disciplines of exercise physiology. Emphasizes the disciplines required in various professional applications (fitness, rehabilitation, performance and research) of exercise physiology. 3 lec.

**204 History and Principles of Physical Education (4)**

Prereq: professional standing in sport sciences. (winter) History of sport and physical education from ancient to modern times. Principles underlying physical education in modern program of education are covered. 4 lec.

**205 Fundamentals of Movement, Rhythms and Dance (3)**

Prereq: professional standing in sport sciences. (fall) Introduces students to the disciplines and progressions of teaching human movement, rhythmical activities, and fundamentals of dance in school based physical education programs.

Students begin to develop movement analysis techniques, refine personal movement abilities, and begin the process of learning how to teach basic movement skills. 1 lec, 4 lab.

**212 Introduction to Coaching (3)**

Prereq: soph. (fall) Presents an overview of the multiple components involved in coaching individual athletes and athletic teams. Designed for those interested in coaching at the youth, interscholastic, or intercollegiate levels. Focuses on both theory and practical application, and any sport coaching interest is accommodated. 3 lec.

**213 Youth and Sports (3)**

(winter) Covers opportunities, controversies, organizations, safety, values, rules, leadership, benefits, and settings of youth sports programs. 3 lec.

**215 Practicum in Athletics (2)**

Prereq: 212. Supervised field experience designed to involve student in coaching/administrative setting. 4 lab.

**218 Life Guard Training (2)**

Prereq: 227 or concurrent; 228 or concurrent. Principles and practices of life saving for American Red Cross certification. Special fee. 4 lab.

**220 Water Safety Instruction (4)**

Prereq: 218. Includes analysis of swimming, life saving techniques, and teaching practices. Special fee. 2 lec, 4 lab.

**221A Tennis (2)**

Prereq: sport sc or PE major. Increases tennis skill of students majoring in sport sciences. 4 lab.

**221B Badminton (2)**

Prereq: sport sc or PE major. Increases badminton skill of students majoring in sport sciences. 4 lab.

**223 Track and Field (2)**

Prereq: sport sc or PE major. Track and field activities. 4 lab.

**224A Racquetball (2)**

Prereq: sport sc or PE major. Increases racquetball skill of students majoring in sport sciences. 4 lab.

**224B Wrestling (2)**

Prereq: sport sc or PE major. Familiarizes majors with skills and knowledge necessary for successful teaching of wrestling. 4 lab.

**225 History of the Sport Industry (4)**

(fall, winter) Examines the origin and development of the sport industry in America from the 19th century to the present. 4 lec.

**227 First Aid: Work Place training (3)**

Presents the knowledge and skills of the American Red Cross Standard First Aid course, including adult CPR. Certification granted upon successful completion. Special fee. 2 lec., 2 lab.

**228 Cardiopulmonary Resuscitation (1)**

Presents knowledge and skills of the American Red Cross Community CPR course, including instruction in adult, infant, and child skills. Certification granted upon successful completion. Special fee. 0.5 lec., 1.5 lab

**234 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)**

Prereq: permission. Supervised practice in organizing, managing, and teaching physical education activities to school-age children in public school and clinical settings.

**240A Foundations of Sport and Games in Physical Education I (4)**

Prereq: C or better 205. (winter) Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills. 1 lec. 6 lab.

**240B Foundations of Sport and Games in Physical Education II (4)**

Prereq: C or better 205. (spring) Sport and games are a primary instructional component of physical education programs. This course introduces and provides instruction in a variety of sport skills

and game activities that typically occur outdoors. Students will receive instruction in basic skills, tactics and strategies of game play, and will be required to apply principles of outdoor sports and games at different developmental levels. 1 lec., 6 lab.

**247 Fitness Testing (3)**

Prereq: professional standing in sport sciences. Allows students to develop the necessary skills required to evaluate health related physical fitness. Emphasizes applied skills that will be gained through hands-on experience. 1 lec., 4 lab.

**260A Flag Football (2)**

Prereq: sport sc or PE major. Increases flag football competency of students majoring in sport sciences. 4 lab.

**260B Team Handball (2)**

Prereq: sport sc or PE major. Increases team handball competency of students majoring in sport sciences or PE major. 4 lab.

**261 Practicum in Sport Science (1-5)**

Prereq: permission. Lab and field experiences designed to place students in various settings related to their program emphasis. 2-10 lab.

**262A Field Hockey (2)**

Prereq: sport sc or PE major. Increases field hockey skill and knowledge of students majoring in sport sciences. 4 lab.

**262B Soccer (2)**

Prereq: sport sc or PE major. Increases soccer skill and knowledge of students majoring in sport sciences. 4 lab.

**263A Basketball (2)**

Prereq: sport sc or PE major. Increases basketball skill and knowledge of students majoring in sport sciences. 4 lab.

**263B Volleyball (2)**

Prereq: sport sc or PE major. Increases volleyball skill and knowledge of students majoring in sport sciences. 4 lab.

**264A Softball (2)**

Prereq: sport sc or PE major. Increases softball skill and knowledge of students majoring in sport sciences. 4 lab.

**264B Lacrosse (2)**

Prereq: sport sc or PE major. Increases lacrosse skill and knowledge of students majoring in sport sciences. 4 lab.

**270 Teaching of Physical Education (3)**

Prereq: elem ed or early childhood/primary major. Lab and lecture experiences for teaching physical education in elementary school. 3 lec, 2 lab.

**290 Teaching Aerobic Exercise and Dance (4)**

Introduces students to area of aerobic dance/exercise, its history, characteristics, and related information necessary to development. 3 lec, 2 lab.

**302 Biomechanics (4)**

Prereq: C or better BIOS 301 or 302. (fall, winter) Analysis of human movement based on anatomical and mechanical principles. 3 lec, 2 lab. (Same as BIOS 352.)

**305 Coaching of Swimming (3)**

Prereq: 212 or soph. Theory of coaching swimming and diving; analysis of skills, methods, duties, and responsibilities. 3 lec.

**310 Principles, Theories and Methods of Teaching Early Childhood Physical Education (6)**

Prereq: C or better 240A, 240B. (fall) Examines the role of physical education at the early childhood level with emphasis in basic movement education with scope and sequencing for ages 3 through grade 3. Students will refine teaching skills and develop an understanding of the interrelation of curriculum, unit and lesson planning unique to teaching early childhood physical education. Observation and interaction

with children through field study under the supervision of faculty and cooperating teachers. 3 lec, 6 lab.

**313 Sport Club Management (3)**

Prereq: MGT 202, jr. or sr. (winter) Focuses on application of management theory to a sport business. Emphasizes decision making techniques and communication skills leading to effective planning, organizing, and controlling a sport-related service or product. 3 lec.

**318 Coaching of Tennis (3)**

Prereq: 212 or soph. Theory of coaching tennis: analysis of skills, strategies, methods, duties, and responsibilities. Limited practical work. 2 lec, 2 lab.

**319 Analysis of Current Research in Physical and Motor Development of Athletes (3)**

Prereq: 212 or soph. Physiological, anatomical, and kinesiological research finding which maximizes motor performance and minimizes injury. Special emphasis on utilization of research in competitive sports. 3 lec.

**320 Coaching of Wrestling (3)**

Prereq: 212 or soph. Theory of coaching wrestling: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

**324 Coaching of Soccer (3)**

Prereq: 212 or soph. Theory of coaching soccer: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec., 2 lab.

**325 Human Dynamics in Sport (3)**

Prereq: 125 or 212. Interpersonal dimensions of coaching and participating in athletic programs. 3 lec.

**327 First Aid: Work Place Training Instructor (3)**

Prereq: 227. Presents all necessary information to conduct and implement an American Red Cross Standard First Aid course. Instructor certification granted upon successful completion. Special fee. 1 lec, 4 lab.

**328 CPR Instructor (3)**

Prereq: 228. Presents all necessary information to conduct and implement an American Red Cross Community CPR course. Instructor certification granted upon successful completion. Special fee. 1 lec. 4 lab.

**330 Principles, Theories and Methods of Teaching Middle Childhood Physical Education (6)**

Prereq: C or better 310. (winter) Examines the role of physical education at the elementary and middle school levels. Emphasis on curriculum development, unit and lesson planning, and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 4-8. 3 lec, 6 lab.

**333 Adapted Physical Education (4)**

Prereq: 310. (winter) Organization of physical activity programs adapted to needs of atypical individuals. 3 lec, 2 lab.

**334 Clinical and Field-Based Experiences in Physical Education (1-4, max 4)**

Prereq: permission. Supervised practice in organizing, managing, and teaching physical education activities to children in public schools and in clinical settings.

**335 Adapted Physical Education for the Special Educator (4)**

Prereq: EDSP 271 or EDCI 200, 201, and 202. (winter) Designed to offer insight and practical experience in the areas of motor deficiencies of children. Provides for the acquisition of observation skills, motor analysis skills, motor progressions, and the process of adapting skills, activities, and equipment to the motor needs of children with disabilities. 3 lec, 2 lab.

**339 Athletic Officiating—Football (3)**

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.



**340 Athletic Officiating—Basketball (3)**

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.

**341 Athletic Officiating—Baseball (3)**

Rules, mechanics, and procedures in officiating. Practice under actual game conditions in Intramural Sports Program. 2 lec, 2 lab.

**345 Foundations of Exercise Physiology (4)**

Prereq: C or better 12S, BIOS 301 or 302. (winter) Introduces the basic physiological principles of organ systems and body function during exercise. Special emphasis on the function of the nervous, muscular, cardiovascular, and respiratory systems and how they respond to exercise and exercise conditioning. Application of these principles in examining the optimal means to promote health-related fitness and optimal athletic performance. 4 lec.

**347 Exercise Prescription I (3)**

Prereq: 247; BIOS 301 or 302. Allows students to develop the knowledge and skills to evaluate the risk of exercise, evaluate fitness levels, write exercise prescriptions and develop exercise programming. 2 lec, 2 lab.

**348 Exercise Testing and Prescription (5)**

Prereq: 12S, 203, 227, HLTH 202. (fall) Enables students to develop the knowledge and skills needed to evaluate the risks of exercise, evaluate fitness levels, write exercise prescriptions, and develop exercise programming. No credit if PESS 247, 347 have been taken. 3 lec., 4 lab.

**350 Independent Study (1–5)**

Prereq: jr, perm. Study and/or research in selected fields related to physical education, athletics, or sports sciences under direction of PESS undergraduate committee and faculty member.

**351 Coaching of Golf (3)**

Prereq: 212 or soph. Theory of coaching golf: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**352 Coaching of Ice Hockey (3)**

Prereq: 212 or soph. Theory of coaching ice hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**353 Coaching of Lacrosse (3)**

Prereq: 212 or soph. Theory of coaching lacrosse: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**354 Coaching of Volleyball (3)**

Prereq: 212 or soph. Theory of coaching volleyball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**356 Coaching of Field Hockey (3)**

Prereq: 212 or soph. Theory of coaching field hockey: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**365 Coaching of Basketball (3)**

Prereq: 212 or soph. Theory of coaching basketball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**366A Coaching of Baseball (3)**

Prereq: 212 or soph. Theory of coaching baseball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**366B Coaching of Softball (3)**

Prereq: 212 or soph. Theory of coaching softball: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**367 Coaching of Football (3)**

Prereq: 212 or soph. Theory of coaching football: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**368 Coaching of Track (3)**

Prereq: 212 or soph. Theory of coaching track: analysis of skills, strategies, methods, duties, and responsibilities. 2 lec, 2 lab.

**370 Principles, Theories and Methods of Teaching Adolescent and Young Adult Physical Education (6)**

Prereq: C or better 330. (spring) Examines the role of physical education at the adolescent and young adult levels with an emphasis on curriculum development, unit and lesson planning and methods of instruction. Students develop an understanding of the organization and administration of physical education programs appropriate for grades 9–12. 3 lec, 6 lab.

**376 Athletic Facility Planning and Management (4)**

Prereq: 201, OPN 310. (fall, winter) Applies the functions of management to the development, operation, and financing of sport facilities. Facilities examined include public and private arenas, coliseums, and stadia. 4 lec.

**380 Life Guard Training Instructor (2)**

Prereq: current lifeguard training certificate. Focuses on the responsibilities of the lifeguard, lifeguard conduct, preventative lifeguarding, emergency plans for all types of facilities, and health and sanitation. 4 lab.

**391 Risk Management (4)**

Prereq: professional standing in sport science. (winter, spring) Prepares students to assume responsibility for programs of risk management in the sport industry. Emphasizes the policies, procedures, safety audits, risk reviews, and emergency action plans needed to develop an effective risk management program. 4 lec.

**400 Women in Sports (3)**

Prereq: jr. Examines the role of play, sports, and games in the life of women. Explores place of women in sports world, and reflects on special attitudes and structures of women's sports. 3 lec.

**401 Sport Marketing (4)**

Prereq: 201, MKT 202. (fall, winter) Introduces basic sport marketing concepts with application to amateur and professional sport organizations. Topics include promotions and public relations, sport consumer behavior, strategic marketing planning, marketing information management, and marketing communication. 4 lec.

**405 Motor Learning (4)**

Prereq: jr. (fall, winter) Consideration of psychological, sociological, and physiological bases of learning and application of these theories to performance. 4 lec.

**408 The Black Athlete and American Sport (3)**

Prereq: jr. Explores origins of black athlete's participation in American sport and examines role of black men and women in growth of American sport and physical activity during 19th and 20th centuries. 3 lec.

**409 Tests and Measurements (4)**

Prereq: PE or comm. health major. (winter) Administration and evaluation of tests in health, physical education, and athletics; practice in handling test data by elementary statistical methods. 4 lec.

**411 The Olympic Movement (3)**

Prereq: jr. Study of origin and development of games from Greek era to modern period. Meaning of Olympism in relation to contemporary summer and winter Olympiads explored. 3 lec.

**412 Sports Governance and Ethics (4)**

Prereq: sport industry major, jr. (fall, spring) Focuses upon legal questions, public relations, ethics, budgeting, recruiting, crowd control, evaluation, and personnel. 4 lec.

**414 Physiology of Exercise (4)**

Prereq: BIOS 345 and selected major. (fall, spring) Fundamental concepts an application of organ systems responses to exercise, special reference to skeletal muscle metabolism, energy expenditure, cardiorespiratory regulation, and training and exercise mental adaptations. 4 lec. (Same as BIOS 445.)

**415 Physiology of Exercise Lab (3)**

Prereq: 414 or concurrent; BIOS 345. 6 lab. (fall, spring) (Same as BIOS 446.)

**416 Resistance Training: Theory and Application (4)**

Prereq: 415. (winter) Explores the physiological characteristics of muscle, its adaptations to exercise, and training methods that can be used to produce these adaptations. Emphasizes both theory and application, with hands-on experience. 3 lec, 2 lab.

**418A Instructional Experiences (1–3)**

Prereq: perm. Supervised practice in organizing and teaching activities in college and athletic settings.

**418B–E: G–Z Special Topics Seminars (1–15)**

Prereq: perm.

**421 Principles of Aging and Physical Activity (4)**

Prereq: 12S. (spring) Designed to assist students to develop knowledge and skills involving physical activities for older adults. Information concerning the effects of the aging process on physical activities, benefits of physical activities, physical activity instructional considerations, principles of physical activity programming, and physical activity strategies are presented. 3 lec, 2 lab.

**425 Financial Issues in Sport (4)**

Prereq: 201, ECON 103, FIN 32S. (winter, spring) Examines and applies the concepts of financial resource management to the operation of programs in the sport industry. Concepts examined include forms of ownership, taxation, financial analysis, feasibility studies, revenue generation, economic impact studies, and current issues in sport finance. 4 lec.

**430 Sport Sponsorship and Licensing (4)**

Prereq: 401. (winter, spring) Provides an overview of the elements of sport sponsorship and licensing. Content includes the rationale and benefits of sponsorship and licensing, sponsorship proposals, licensing program development, and solicitation of sponsors and licensors. 4 lec.

**447 Exercise Prescription II (4)**

Prereq: 347, 414, 415. (winter) Students develop the knowledge and skills to evaluate fitness levels and the risk of exercise, write exercise prescriptions and develop exercise programming focusing on the high risk and diseased population. 3 lec, 2 lab.

**485 Motor Development (3)**

Prereq: 12S or 405. (spring) Principles and practices in perceptual-motor development as they relate to children's movement experiences. 2 lec, 2 lab.

**490 Internship in Sport Sciences (16)**

Prereq: sport science major, jr, perm. Elective internship with approved firm, agency hospital, unit, school, or organization.

**493 Research Dynamics: Planning, Participation and Actualization of the Research Process (1–6, max 12)**

Prereq: major, perm. A hands-on approach to research: developing the idea, establishing the methodology, collecting data, doing the statistical evaluation, and writing the results in publication format.

**Recreation Studies (REC)**

101	Orienteering	1
102	Advanced Orienteering	1
103	Survival I	1
104	Survival II	1
105	Whitewater Rafting	1
106	Hunting	1
107	Trapshooting (Fee: \$17)	1
108	Technical Climbing and Rappelling	1
109	Advanced Survival	1
111	Winter Activities	1

- 112 Backpacking I 1  
 113 Canoeing 1  
 114 Kayaking 1  
 115 Ropes 1  
 116 Rescue Techniques 1  
 117 Primitive Construction 1

**200 An Introduction to Leisure (4)**  
 Prereq: fr or soph. Provides student with broad understanding of nature and scope of leisure behavior and resources on which they can build their subsequent specializations. 4 lec.

**214 Camping for Special Populations (2)**  
 Develops and teaches implementation of camping activities for special populations with emphasis on strengths and weaknesses of individual camper. 2 lec.

**236 Field Experience in Recreation (1-3)**  
 Prereq: soph, jr, or sr; major or minor; perm. Designed to provide sophomore recreation student with opportunity to acquire supervised experiences in skills and techniques involved in differing areas of recreation. 2-6 lab.

**250 Recreation Leadership (4)**  
 Prereq: fr or soph. Lectures and discussions concerning value of recreation, leadership techniques, and selection of activities. 3 lec., 2 lab.

**251 Art and Nature Crafts for Recreation Programs (3)**  
 Prereq: REC major or minor. Organization of art and nature crafts program and experiences in use of various craft materials with particular emphasis on nature crafts.

**270 Introduction to Therapeutic Recreation Services (4)**  
 (spring) Factors presented will serve as foundation for career or employment in therapeutic services in both clinical and community settings to improve the health and well-being of those with physical, cognitive, social and/or emotional impairments. 4 lec.

**275 Recreation for Individuals with Disabilities (4)**  
 Prereq: 200, 250. Presents characteristics and leisure needs of various individuals with disabilities and techniques for planning and conducting inclusive recreation activities. 4 lec.

**290 Recreational Sport Officiating (3)**  
 Prereq: soph. (fall, spring) Provides meaningful, educational experience of practical nature in area of sport officiating. 2 lec, 2 lab.

**291 Outdoor Pursuits (3)**  
 (fall) Introduction to basic knowledge and skills necessary for participation and leadership in outdoor activities. 2 lec, 2 lab.

**301 Leisure Education and Facilitation Techniques (4)**  
 Prereq: 200, 270. Study of leisure education models and concepts; application and understanding of facilitation techniques in therapeutic recreation services. 3 lec, 2 lab.

**305 Planning and Operating Recreation Areas and Facilities (4)**  
 Prereq: 200, 250, REC major or minor. (winter) Provides knowledge and understanding about planning and operating recreation areas and facilities. Focuses on undeveloped natural areas, developed areas, and facilities and maintenance operations. 4 lec.

**310 Recreation Programming (4)**  
 Prereq: 200, 250. (fall, spring) Concepts and fundamentals of recreation and program planning. 4 lec.

**311 Expedition Management (3)**  
 Prereq: jr. (fall) Will assist student in planning and competently leading wilderness camping expedition. Will acquaint student with all aspects of expedition leadership. Student will develop and lead expedition in competent, safe manner. 2 lec, 2 lab.

**312 Medical Emergency Response (3)**  
 Prereq: 311. Presents advanced knowledge and skills in emergency response and care for injuries, illness, respirator, cardiac, childbirth, oxygen delivery, and other emergencies. Students who successfully complete the course will receive American Red Cross emergency response certification. 3 lec, 1 lab.

**313 Fitness and Wellness Programs in Campus Recreation (3)**  
 Prereq: 200, 250. (spring) Examines elements in the organization and administration of fitness and wellness programming in campus recreation programs. 3 lec.

**314 Camping (4)**  
 Prereq: REC major or minor. (fall, spring) Introduction to and experiences in different methods of camping and various skills associated with camping.

**315 Outdoor Education and Recreation (4)**  
 Prereq: 200, 250, REC major or minor. (fall, spring) Designed to provide student with fundamental knowledge necessary to provide learning experiences in out-of-doors and for teaching necessary skills for outdoor living enjoyment.

**316 Social Programming and Special Events in Campus Recreation (3)**  
 Prereq: 200, 250. (winter) Examines and applies the concepts of social programming and special events as they relate to collegiate recreation programming. Includes identification of social programming and special event trends, collaborative work with other campus organizations, event planning, budgeting and staffing guidelines, program assessment, and evaluation. 2 lec, 2 lab.

**320 Challenge Course Theory and Practice (3)**  
 Prereq: 200, 250. (fall) Provides the background knowledge and skills necessary to be an entry-level challenge course facilitator. Includes foundational knowledge and theory and the facilitation and judgment skills necessary to provide safe learning experiences for challenge course participants. 2 lec., 2 lab.

**336 Field Experiences in Recreation (3)**  
 Prereq: 275, REC major, perm. Designed to provide junior recreation student with opportunity to acquire experience in skills and techniques involved in differing areas of recreation.

**345 Camp Leadership (2)**  
 Responsibilities of camp personnel at executive, administrative, supervisory, and functional levels. Includes different types of organized camps and their individual programs.

**350 Independent Study (1-5)**  
 Prereq: jr, perm.

**370J Writing for Recreation Studies (4) (1J)**  
 Prereq: jr. (winter) Allows the student to practice the writing process while investigating current issues and trends in the recreation and leisure field. 4 lec.

**376 Practices in Therapeutic Recreation (4)**  
 Prereq: 270, 275. (fall) Study of therapeutic recreation service, principles, and practices in various types of institutions. 3 lec.

**377 Administration of Therapeutic Recreation (4)**  
 Prereq: 376. (fall) Assessment and analysis of leisure time activities for the disabled, with emphasis on contributions these activities can make in rehabilitation of those special populations. 3 lec.

**381 Management of Recreational Sports (4)**  
 Prereq: soph. (fall, winter) Organizing and administering a program of intramural sports for all age levels. 4 lec.

**390 Wilderness Survival (3)**  
 (spring) Provides student with basic skills and knowledge to survive in wilderness situation, to cope with wilderness emergencies, and to teach wilderness survival. 3 lec, 1 weekend trip.

**418A Instructional Experiences (1-15)**  
 Prereq: perm. Supervised practice in organizing and teaching activities in college and recreational settings.

**418B-Z Special Programs in Recreation (1-15)**  
 Prereq: perm. Provides the recreation major or professional unique experience and instruction in specialized topics. Designed as short-term mini-courses, seminars, and specialized workshops. Some may have additional fees attached; check *Schedule of Classes* for information.

**430 Principles of Therapeutic Recreation for the Mentally Retarded (3)**  
 Preparation for presenting activities and evaluating mentally retarded and learning disabled children and youths in areas of body mechanics, physical fitness, games of low organization, sports, rhythms, stunts, tumbling, and recreation activities. 3 lec.

**435 Management of Campus Recreation Facilities (3)**  
 Prereq: jr or sr. (spring) Examines various aspects of campus recreation facility management including facility planning and design, facility operations, risk management, compliance, and legal liability. 3 lec.

**440 Internship in Recreation (16)**  
 Prereq: 305, 310, 336, REC major, perm. Supervised professional field work experiences in approved program of recreation.

**445 Research and Evaluation Methods in Recreation and Leisure (4)**  
 PSY 120 or 221; sr, REC major. (spring) Overview of research and evaluation methods as applied to recreation and leisure services. 4 lec.

**449 Recreation Administration (4)**  
 Prereq: 305 or 310 or 440. (winter, spring) Programs and program building; administration of playgrounds, community centers, and recreational activities. 4 lec.

**450 Issues in Campus Recreation (3)**  
 Prereq: 435, jr or sr. (spring) Examines and discusses issues affecting collegiate, military, and correctional recreation programs, as well as the issues affecting the field of campus recreation. Topics include trends, funding, sponsorships, professionalism, student development, service impact, extramural programming, and the role of the National Intramural and Recreational Sports Association (NIRSA) in personal and professional growth. 3 lec.

**455 Administration of Aquatic Facilities (3)**  
 (winter) Prepares students to supervise a facility and provides background for the mechanical functions of a pool and the organization of a total aquatic program. 3 lec.

**460 Concepts and Issues in Leisure (4)**  
 Prereq: 305 or 310 or 440. (fall, winter) Study of selected leisure theory for the purpose of developing recreation programs. 4 lec.

**470 Assessment and Documentation in Therapeutic Recreation (4)**  
 Prereq: 376. (winter) Designed to prepare students to assess individuals who may have disabling conditions, to plan therapeutic recreation dependent on the consequences of these conditions, and to document the effects of the treatment plan. 4 lec.

**471 Program Design in Therapeutic Recreation (4)**  
 Prereq: 470. (spring) In-depth examination of therapeutic recreation planning and evaluation as it relates to specific programs using a systems theory approach. 4 lec.

**472 Trends and Issues in Therapeutic Recreation (4)**

Prereq: 471. (spring) In-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. 4 lec.

**475 Adventure Programming (3)**

(spring) Prepares student to plan, organize, and conduct outdoor adventure activities. 3 lec, 1 lab.

**Reserve Officers Training**

See Aerospace Studies or Military Science.

**Russian**

See Foreign Languages and Literatures.

**Security/Safety Technology (SST)**

The following courses for the A.A.S. in security/safety technology are available only on the Chillicothe campus:

**101 Introduction to Protective Services (3)**

Overview of private security profession. Student will be able to relate private security's function to its proper perspective in today's complex society and to see where private security and its various functions fit into criminal justice system.

**110 Physical Security Systems (3)**

Physical security requirements and standards. Includes study of various physical security systems plus technical devices employed in industrial, retail, and institutional security operations.

**250 Current Problems in Security (3)**

Analysis of special problem areas in security such as security education and training, community relations, labor problems, and disaster planning. Other specific areas analyzed for further research by individual students depending upon their interest. These later areas may include bank security, campus security, computer security, hospital security, and various other areas.

**290A-Z Special Area Studies (3-4)**

Courses designed to provide flexibility to satisfy needs of particular industry in our area of individual student who would like to pursue further study in specialized area

**Social Work (SW)****101 Introduction to Social Welfare and Social Work (3) (2S)**

Provides an overview of a range of social problems and society's response to them through the social service delivery system. The problems and services described include: child abuse and neglect, drug and alcohol abuse, poverty, aging, mental health and illness, corrections, and others. Within this context, various career options and professional roles will be described, including that of social work.

**190 Social Work as a Profession (2)**

Prereq: SW 101 or concurrent. This course, normally taken concurrently with 101, provides social work majors with a 30-hour field experience to observe operations of social service organization and roles and functions of social workers and other helping professionals. Weekly seminar.

**290 Social Welfare as an Institution (4)**

Prereq: 101. Fall, winter. Nature of social welfare as social institution, stressing scope of social welfare activity, historical development, value orientation, response to current social problems, issues in social policy, and emergence of social work as profession.

**410 International Social Work and Social Welfare (4)**

Prereq: SW101, POLS 101. Explores international social work and social welfare in the context of global social issues. Presents an overview of the social work profession, the impact of global interdependence on social work practice, and historical and current social welfare challenges facing developed and developing nations.

**350 Research Methods in Social Work (4)**

Prereq: major, PSY 221, jr or perm. General overview of the social work research process, based on the problem solving method. Special emphasis on the evaluation of practice with clients. Examines measurement instruments, sampling procedures, research designs, data collection methods, program evaluation, qualitative research, ethical issues, and the writing of research reports.

**380 Child Abuse and Neglect (4)**

Prereq: jr or sr plus 18 hrs in social sciences. Examines processes of identification, reporting, referral, and case management of child abuse and neglect cases. Multidisciplinary approach to these processes described.

**381 Counseling Older Adults (4)**

Prereq: PSY 101 plus jr. Focuses on basic counseling, communication, and intervention skills needed by persons working with aged. Problems specific to later yrs discussed. Field work component provides opportunity for interaction with older adults.

**382 Understanding Alcohol Problems and Alcoholism (4)**

Prereq: jr or sr. Provides knowledge and understanding of the biopsychosocial aspects of alcohol problems and alcoholism. Examines the causes and consequences of alcohol abuse, diagnostic issues, intervention, treatment, and aftercare. Also the impact of alcoholism on the family and other special groups is explored.

**383 Introduction to Social Work Practice Methods (4)**

Prereq: major, jr, or perm. Focuses on development of effective social work communication skills as they relate to social work relationship and professional practice.

**384 Social Welfare Law (4)**

Prereq: 101 or perm. Examines the need for cooperation between the worlds of business and social welfare within the context of the legal system as it addresses the needs of the poor, the elderly, minorities, and families. Focuses on development of interpersonal problem-solving skills and team building, considering both socioeconomic and legal factors.

**385 Administration and Supervision in Human Services (4)**

Prereq: jr or perm. Focuses on the description, analysis, and application of principles of administration and supervision that are relevant to human service agencies. Examines knowledge and skill bases of effective administration and supervision and applies them to the beginning employee.

**390 Social Policy (4)**

Prereq: 290 or perm. Examination of social policy stressing policy development, relationships of policy, goals, and organizational structure; and decision-making patterns and role assignments within social welfare organizations and agencies.

**393 Dynamics of Human Behavior I (4)**

Prereq: major, BIOS 103, PSY 273 or perm. (fall) First in two course sequence designed to present holistic approach to assessing social functioning with emphasis on human diversity and integration of knowledge of behavior fundamental to practice of social work.

**394 Dynamics of Human Behavior II (4)**

Prereq: major, 393, PSY 314 or perm. (winter) Expands on 393 and further examines development and functioning of individual within developmental, systems, and ecological framework.

**396 Social Work Practice I (4)**

Prereq: major, 383, 390, 394, perm. (fall) First of three-quarter-sequence practice class. Focuses on context of social work practice, application of social work's ethical value system, communication, and development of analytical skills for engaging in problem-solving process.

**397 Social Work Practice II (4)**

Prereq: 396, 350, perm. (winter) Further develops the generalist approach to the problem-solving model used in 396 and applies the model to working with groups, families, and communities.

**398 Social Work Practice III (4)**

Prereq: 397, perm. (spring) Final phases of problem-solving process, evaluation, and termination are examined. Additional topic areas include grantsmanship, teamwork, and effecting organizational change.

**440 Mental Health and Social Work (4)**

Prereq: jr, 101, PSY 332. Explores the history of mental-health policies, stereotypes associated with mental illness, and social work practice based on a strengths model. Service learning is an integral component.

**450 Social Work in Health Care (4)**

Prereq: SW 101 plus 8 hrs. in social sciences. Provides material regarding health care on a micro and macro level to prepare social workers to intervene in practice or policy area of health care. Understanding practice with diverse populations and the role of social work values and ethics in health care settings is emphasized.

**470 Writing for Social Workers (4)**

Prereq: SW 101. Focuses on the skills required to perform the range of writing tasks required of social workers, including peer review. Course is partially online and partially classroom-based.

**486 Aging in American Society (4)**

Prereq: jr, 12 hrs in social sciences. Review of available knowledge on critical issues and problems of aged in America. Attention devoted to social welfare programs and services designed to meet needs of elderly.

**491A Integrative Seminar (2)**

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 492A. Integration of field experiences with coursework and personal reflection. Students process activities, questions, and concerns related to the field practicum, develop analytical skills in written assignments about themselves and their organization, and reflect upon practice issues of race, gender, and economics to foster self-understanding and growth.

**491B Integrative Seminar (2)**

Prereq: 491A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 492B. See 491A for description.

**491C Integrative Seminar (2)**

Prereq: 491B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 492C. See 491A for description.

**492A Field Practicum (4)**

Prereq: 383, 390, 394, perm. (fall) First of three-quarter sequence, taken concurrently with 396 and 491A. A three-quarter placement experience during which students begin with observation and gradually progress toward independently assuming the social work roles of teacher, broker, counselor/clinician, and advocate in generalist practice.

**492B Field Practicum (5)**

Prereq: 492A, perm. (winter) Second of three-quarter sequence, taken concurrently with 397 and 491B.

**492C Field Practicum (5)**

Prereq: 492B, perm. (spring) Final quarter of three-quarter sequence, taken concurrently with 398 and 491C.

**498 Independent Studies and Special Projects in Social Work (1–10, max 10)**

Prereq: 12 hrs SW, perm. Student responsible for design and implementation of course of study or special project in area related to social work. Student interested in course must submit proposal for approval by department chair at least 30 days prior to enrollment in course.

## Sociology (SOC)

**101 Introduction to Sociology (4) (25)**

Nature of human society and factors affecting its development. Fundamental concepts of sociology: culture, personality, socialization, social organization, groups, institutions.

**201 Contemporary Social Problems (4) (25)**

Prereq: 101 or soph or above. Sociological perspectives on social problems considered. Specific social problems analyzed may include problems related to crime, sexual inequality, poverty, minority groups, drug and alcohol abuse, mental illness, environment, and others.

**204 Animals and Human Society (4)**

Prereq: 101. Students will learn about relationships between humans and animals historically and cross-culturally, how the meanings attached to animals structure human-animal and animal-human interactions within several institutions, and how these meanings work to perpetuate hierarchical human relationships such as racism and sexism. Several of the major philosophical positions regarding animal-human relations will be examined critically.

**210 Introduction to Social Psychology (4)**

Prereq: 101. Patterning of individual behavior from social interactions. Analysis of individual-group relationships in various social settings. Current theory and research in social psychology.

**211 Collective Behavior (4)**

Prereq: 101. Study of collective behavior including the formation of crowds; behavior in crowds; behavior in panics, disasters, fads, and riots; and the impact of collective behavior on society.

**220 Introduction to the Family (4)**

Prereq: 101. Emphasis on American family and how it has been changing. Topics include interaction within family, family in relation to other institutions, mate selection, marriage and its alternatives, family disorganization, and future of American family.

**230 Sociology of Poverty (4)**

Prereq: 101. Critical examination of theories of poverty, how poverty is defined and measured, theoretical implications of research on poor, consequences of poverty, and strategies to fight poverty.

**231 Sociology of Health and Health Care (4)**

Prereq: 101. Examination of social definitions of health and disease, distributions of health and disease, and health care delivery. Particular attention devoted to medical education, various health care delivery systems, and contemporary social issues in medicine.

**233 Sociology of Sport (4)**

Prereq: 101. Analysis of social aspects of sport, with emphasis on interrelationship of sport and society. Focuses on topics such as social values, education, sport roles, religion, socialization, mass media, sexism, and racism; oriented to student with interest in sports.

**240 The Future Society (4)**

Prereq: 101. Outline of possible futures of society by projection from baseline data on population growth and mobility; patterns of resource and energy consumption; quantitative and qualitative dimensions of modification of human habitat; evolution of technology; and nature of human

culture and social structure as they relate to above. Students will have opportunity to speculate on society of future.

**260 Criminal Justice (4)**

Prereq: 101. Examination of structures and decision processes of agencies that deal with crime and criminal offenders. An emphasis is placed on how practice is based on politically derived public policies, and how sociology can be used to analyze the practice of these agencies. Topics include criminal law, policing, court systems, sentencing, and corrections.

**261 Deviant Behavior (4)**

Prereq: SOC 101. Theory and research concerning major types of deviant behavior and societal reaction to such things as criminality, suicide, drug addiction, and mental disorders. Causes and consequences of deviant behavior.

**305 Readings in Sociology (1–6, max 6)**

Prereq: 16 hrs SOC and perm. Independent directed readings designed to expand student's understanding in selected area of interest.

**309 Sociology of Appalachia (4)**

Prereq: 8 hrs SOC, including 101. Intensive study of Appalachia from sociological perspective. Emphasis on population of Appalachia (number and distribution of inhabitants, characteristics of population, vital processes and migration), culture of rural poverty, acceptance of innovation and social change in Appalachia, major social institutions in area, and community power structure in Appalachia.

**315 Social Identities (4)**

Prereq: 8 hrs SOC, including 101. Examines the diversity and complexity of social relationships between the person and society in terms of identity formation. Focus will include levels of socialization and their influence on the individual as a member of mass society.

**327 Sociology of Education (4)**

Prereq: 8 hrs SOC, including 101. School as social institution in relation to community and development of child; comparative systems of education; issues of access and inequality in delivery of educational services.

**329 Race and Ethnic Relations in the United States (4)**

Prereq: 8 hrs SOC, including 101. Racial and ethnic problems in America; causes and consequences of prejudice and discrimination.

**331 Class and Social Inequality (4)**

Prereq: 8 hrs SOC, including 101. Causes and consequences of class and social inequality in selected societies. Critical examination of ideologies that claim to justify inequality.

**340 Population and Society (4)**

Prereq: 8 hrs SOC, including 101. Study of the relations among fertility, morbidity, mortality, and migration in selected human populations, and ecological, natural resource, and cultural variables which sustain and limit those populations.

**351 Elementary Research Techniques (4)**

Prereq: SOC 101 and (PSY 121 or 221 or MATH 250 or 251 or COMS 301 or QBA 201 or ECON 381 or ISE 304 or 305 or 306). Research techniques in sociology. Research design; collection, recording, and analysis of data.

**352 Field Studies in Sociology (1–10)**

Prereq: 351 and perm. Planning, execution, and writeup of empirical study, utilizing skills developed in 351. Limited class meetings, conferences with instructor, research report.

**362 Criminology (4)**

Prereq: 260. Theories and research in criminal behavior and societal reaction to criminality. Causes and consequences of crime.

**363 Juvenile Delinquency (4)**

Prereq: 260 and 351 or SW 350. Theories and research in delinquency. Causes and consequences of delinquent behavior among juveniles.

**364 Police and Society (4)**

Prereq: 260 and 351 or SW 350. Examines the nature and development of policing in the United States from a sociological perspective. Students are introduced to a broad range of topics including police decision making, procedural law, police culture, types of policing, police-minority relations, and police misconduct. Examines the changing role of police in society and the potential consequences these changes have for the development of social policy.

**365 Sociology of Mental Illness (4)**

Prereq: 8 hrs SOC, including 101. Study of social and cultural foundations of mental illness, including review of historic and contemporary definitions of madness and treatment of mental illness. Distribution of mental illness in population and social factors related thereto. Nature of commitment process and legal, moral, and social implications of commitment. Examination of legal processes pertaining to criminal insanity.

**366 Sociology of Correction (4)**

Prereq: SOC 260. Examination of history, operation, and problems of punishment. Patterns of prison organization, inmate group structure, personnel organization, and racism examined. Purpose and effectiveness of penal institutions described. Prisons, juvenile institutions, parole, halfway houses, and alternatives to punishment studied.

**367 Corporate and Governmental Crime (4)**

Prereq: 260 and 351 or SW 350. Examination of the nature, extent, and distribution of corporate, governmental, and other forms of white-collar crime. Practical issues of conducting research in these areas and the application of theory to specific cases. Particular instances of corporate and governmental crime.

**403 Development of Sociological Thought (4)**

Prereq: 12 hrs SOC, including 101, or perm. Major sociological concerns and concepts in relation to their social-historical setting. Special emphasis on sociological thought in 18th and 19th centuries.

**404 Modern Sociological Theory (4)**

Prereq: 12 hrs SOC, including 101, or perm. Critical examination of major sociological conceptual frameworks in 20th century.

**406 Proseminar in Sociology (4)**

Prereq: 20 hrs SOC. Critical examination of selected theoretical and research problems. Primarily for advanced students in sociology.

**407 Feminist Social Theory (4)**

Prereq: 403 or 404. Provides a general overview of contemporary perspectives in feminist social theory and cultivates awareness of the implications these perspectives hold for sociology. Provides an in-depth examination of some of the most influential writings by feminist sociologists. The focus is on ways in which basic assumptions, concepts, and questions in sociology are brought to light from feminist points of view.

**408 Latin American Society (4)**

Prereq: 12 hrs SOC or prev course on Latin America or perm. Intensive study of Latin American society from sociological perspective. Emphasis on contemporary Latin American values, population problems, human-land relations, levels and standard of living, social institutions, urbanization, and social change.

**412 Public Opinion Processes (4)**

Prereq: 12 hrs SOC, including 101, or perm. Attitudes and opinions in relation to formation of public opinion; political socialization and participation; social status, reference groups, decision making; role of mass media.

**413 Mass Communication (4)**

Prereq: 12 hrs SOC, including 101, or perm. Personal and social functions of content in newspapers, radio, television, and film. Types of audiences and communication effects. Organization and control of mass media and problems in evaluation.

**414 Contemporary Social Movements (4)**

Prereq: 12 SOC, including 101, or perm.  
Organized movements resulting in major social changes: revolutionary, nationalistic, reform, religious; agitation, leadership, ideology; case studies of typical movements.

**416 Society and the Individual (4)**

Prereq: 12 hrs SOC, including 101, or perm. Exploration of compatibilities and/or contradictions in psychological systems, culture, and social structure.

**419 Group Processes (4)**

Prereq: 12 hrs SOC and 351 or SW 350, including 101, or perm. Major theories and methods for study of small groups as units of social systems. Communication patterns, role definition, status processes, and solidarity are among topics covered. Current research literature is stressed.

**421 Comparative Studies of Family (4)**

Prereq: 12 hrs SOC, including 101. The institution of marriage and family will be examined and analyzed with regard to families from different cultural, racial, and ethnic backgrounds. Special emphasis on the significance of social and cultural determinants of family life in the United States and internationally.

**422 The American Family System (4)**

Prereq: 12 hrs SOC, including 101. Development of the family system throughout history with an emphasis on how changing patterns and conditions led to the formation of the American family. Problems and challenges, both at the micro and macro levels, faced by the American family today are also examined.

**428 Sociology of Religion (4)**

Prereq: 12 hrs SOC, including 101, or perm. Interrelationship between religious institution and social structure from comparative perspective and with particular reference to American society.

**429 Sociology of Race, Ethnicity, and Class (4)**

Prereq: 12 hours SOC, including 329 or 331. This course is designed with a concern for understanding racism and classism at the macro level of analysis. An interpretation of social forces affecting race and ethnicity as determinants of social class will be covered. The course will enhance an understanding of racial and ethnic diversity.

**430 Sociology of Organization (4)**

Prereq: 12 hrs SOC, including 101, or perm. Concentrates on structure and process of formal organizations. Modern society dominated by giant bureaucracies. We shall study these bureaucracies in detail. Various sociological perspectives for viewing organizations considered and evaluated. Impact of organizations on individuals discussed and problems of living in society dominated by organizations treated in depth.

**432 Political Sociology (4)**

Prereq: 12 hrs SOC, including 101, or perm. Social and cultural basis of influence, power, and authority. Emphasis upon informal aspects of political process in groups and institutions other than government.

**433 Sociology of Occupations and Professions (4)**

Prereq: 12 hrs SOC, including 101, or perm. Professionalism as characteristic of modern economic and industrial complexes, popular conception and modern theory, social and technological preconditions, occupation profession continuum, components, barriers, and strategy, mock professionalism, motivation and satisfaction, controls, professionalism in particular professions.

**435 Sociology of the Welfare State (4)**

Prereq: 12 hrs SOC, including 101, or perm. Introduces students to major theoretical perspectives in the sociology of the welfare state, including industrialist, neo-Marxist, social democratic, and "independent state" perspectives. Focuses on how governments of

these sociological research perspectives deal with the emergence, organization, growth, and contemporary issues of the U.S. social welfare systems. Also some attention to the social welfare systems of Sweden and other European countries.

**450 Data Analysis (4)**

Prereq: 351 or perm. This course develops the ability to analyze research data in the social sciences. The linkages among measurement, statistics, and interpretation of results in social research will be explored. Unscheduled computer laboratory commitment is required (not open to those with credit for CS 322).

**451 Intermediate Data Analysis (4)**

Prereq: 450. Introduction to fundamentals of multivariate analysis. Topics covered include simple linear and multiple regression, analysis of variance and covariance, and logistic regression.

**453 Research Problems in Sociology (2-6)**

Prereq: 20 hrs SOC, including 351, and written perm prior to registration. Individual research in specific problem areas in which student has demonstrated ability and interest.

**464 Law and Social Control (4)**

Prereq: 12 hrs SOC, including 101, or perm. Explores the nature of institutional control and sociocultural constraint as they affect human behavior. Issues covered include the development of formal control mechanisms in societies, the binding force and authority of law, precursors of legislative and judicial law, the effectiveness of formal control mechanisms for reducing specific behaviors, how administrative agencies increase regulation of daily life and "net widening" occurs, and law's effectiveness as a social change agent. Reading material covers the U.S. and some other societies.

**465 Social Change (4)**

Prereq: 12 hrs SOC, including 101, or perm. Dynamics and processes by which social change takes place; major theories of change; industrialization and modernization; social evolution and revolution; planned change; social impact of change.

**467 Violence Against Women (4)**

Prereq: 16 hrs SOC. Examines related forms of violence where women are the predominant victims: forcible rape, marital rape, incest, spousal assault, date rape and assault, and sexual harassment. Role of pornography will be examined. Emphasis placed upon current theoretical and empirical findings and developments.

**470 Sociology of Gender (4)**

Prereq: 12 hrs SOC, including 101, or perm. Examination of social and historical factors that have kept women subordinate to men in family and prevented them from achieving equality in labor force. Also explores prospects for change.

**471 Gender and Justice (4)**

Prereq: 12 hrs SOC. Explores how the interpretation and application of criminal law reflects assumptions about men's and women's natures, appropriate roles, and positions in society. Readings examine changes and stability in the prosecution of violence against women; the prosecution, sentencing, and correction of women offenders, women's and men's access to the profession of law and other legal positions, and conceptions of justice. Readings highlight how race, class, and gender intersect and how structure and interpersonal interaction contribute to observed outcomes.

**491H Honors Thesis in Sociology (5)**

Prereq: Permission, enrolled for Dept. Honors. This course is designed individually for students pursuing departmental honors. The work is undertaken under the supervision of a faculty member and may extend for up to one academic year.

**495 Internship in Criminology (5-10)**

Prereq: 54 criminology major, SOC 260, 351, 362, and perm. Provides internship experience for students majoring in pre-criminology/sociology. Students will have opportunity to apply social

science knowledge and methodologies and to gain direct job-related experience in criminal justice related agency.

**Southeast Asian Studies**

See International Studies

**Spanish**

See Foreign Languages and Literatures.

**Specialized Studies (SPST)****425 Senior Seminar (2)**

Prereq: sr, specialized studies major. Seminar for specialized studies seniors, examining opportunities, challenges, and issues of the 21st century workforce. Includes engaging in self-assessment, reflection and analysis of degree program, and developing a portfolio that documents learning accomplishments.

**490 Internship (1-10)**

Prereq: specialized studies major, permission. This course provides an internship experience for students in the Bachelor of Specialized Studies (B.S.S.) program.

**499 Thesis (1-5)**

Prereq: specialized studies major, permission. Work on research or creative project for thesis; intended for students who plan to graduate with B.S.S. departmental honors.

**Swahili**

See Foreign Languages and Literatures.

**Telecommunications (TCOM)****100 A Mediated World (4)**

Prereq: TCOM freshmen only. The course exposes freshmen entering the School of Telecommunications to the use of telecommunications as a means of exploring, analyzing, and responding to the social world. It introduces freshmen to the nature of the field and its cultural implications, and presents the structure and operation of the school and its programs.

**105 Introduction to Mass Communication (4) (2S)**

Prereq: non-majors only. No credit if taken JOUR 105. All forms of mass communication including newspapers, magazines, radio-television, book publishing, public relations, advertising, and photojournalism. Begins with analysis of communication process and ends with media career opportunities.

**110 Telecommunications Writing and Production Planning (4)**

Prereq: TCOM 100 or perm. or BS6923. Introduction to nondramatic script writing in telecommunications. Examination of elements of the preproduction process.

**170 Media Perspectives (4)**

Prereq: Non-majors only. Studies role of electronic mass media in American popular culture through examination of uses, forms, themes, and implicit values. Combines lecture, discussion, and analysis of personal media uses.

**184 TV/Film Comedy (4)**

Analyzes media comedy, including theories of humor and types, styles, techniques, and varieties of TV and film comedy from the silent movie greats through comedy teams, slapstick, sentimental, screwball, and situation comedies.

**201 Media, Culture, and Technology I (4)**

Prereq: C or better in 110 and soph. or above. Examines the structure, function, and social impact of the major forms of mass media in the United States. The course will give students an understanding of the role of the media in society and provide them with a foundation for becoming critical media users and practitioners.

**202 Media, Culture, and Technology II (4)**

Prereq: C or better in 201; and soph or above. Examines the structure, function, and social impact of the major forms of electronic mass media in the increasingly global economy. The course will give students an understanding of the media in society and provide them with a foundation for becoming critical media users and practitioners.

**220 Introduction to Audio Production (4)**

Prereq: C or better in 110, and audio sequence major (all tracks). Introduction to basic audio theory and production skills, including desktop audio production, commercial production, mixing, microphone theory and techniques, sound design, and digital audio basics.

**231 Short-form Media Scriptwriting (4)**

Prereq: C or better in 110. Writing for a variety of short form broadcast formats, including radio and television features, talk shows, documentaries, and instructional programs.

**240 Introduction to Video Production (4)**

Prereq: C or better 110, video sequence major, or audio post-pro major. Introduction to basic video production skills and aesthetics.

**260 Mass Communication Theories (4)**

Prereq: C or better TCOM 110. Readings course surveying literature in mass communication theory. Special emphasis on telecommunications.

**279 History of Telecommunications (4)**

Prereq: C or better TCOM 110. Covers social, political, and economic aspects of technologies ranging from telegraphs and Babbage enumerators to broadcasting, cable, satellite distribution, and video streaming over the Internet.

**308 Technical Basis of Telecommunications (4)**

Prereq: 110 or COM MGT major. Electronic principles of reproduction and transmission of sounds and images; functions of audio and video equipment.

**313 Field Audio Production (4)**

Prereq: audio sequence major (media production track) and 220, 308. Location audio production techniques, including planning, acoustics, live recording and live sound reinforcement, among others.

**315 Recording Industry Survey (4)**

Prereq: audio sequence major (music track) and 220, 308. An examination of the history, people, and business practices of the recording industry. Topics include: impact of the recording industry, structure of a record label (marketing, sales, promotion, legal, advertising, artist relations, A&R, etc.), music publishing, copyright, product acquisition, among others.

**318 Multiple-Camera Producing and Directing (4)**

Prereq: 240, 231 video sequence major; portfolio review. Multiple-camera producing and directing. Lab experience in production of original studio programming.

**319 Advanced Single-Camera Producing and Directing (4)**

Prereq: 240, video sequence major; footage; permission. Producing and directing original video productions using single-camera "film style" technique. Includes all phases of production process from concept to post-production.

**323 Computer Animation (4)**

Prereq: Video major; C or better 240 or perm. Advanced animation and computerized graphic design for video.

**355 Broadcast and Cable Programming (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Broadcast and cable programming principles and practices; analysis and evaluation of programs and program formats.

**360 Electronic Media Management (4)**

Prereq: 355 nonmajor; 355 and C or better in 202 major. Intensive overview of bases of telecommunications management; includes concepts relating to management theory, personnel motivation, organizational communication, and management's relationship to various aspects of organizational operation.

**367 World Broadcasting (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Analysis of national telecommunications systems in terms of political, social, economic, and cultural factors.

**371 Effects of Mass Communications (4)**

Prereq: 260 non-major; 260 and C or better in 202 major. Course is designed to acquaint students with social effects of mass media.

**384 Media Criticism (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Survey of contemporary methods of critical analysis as applied to television. Screenings include television programs of past, present, avant garde, and mainstream.

**390 On-Campus Practicum (1)**

Prereq: TCOM major. Practical experience in Ohio University telecommunications facilities, including the All Campus Radio Network, Athens Video Works, and the Telecommunications Center training program.

**391 Off-Campus Practicum (1)**

Prereq: TCOM major. Practical experience in off-campus media facilities. May be taken during quarter breaks or in summer. Students are required to submit a proposal and work at least 40 hours.

**405 Research Internship (1-9)**

Prereq: C or better in 202 and perm. Opportunity for student to implement and complete major research study under supervision.

**413 Commercial Music Recording and Production (4)**

Prereq: audio sequence major (music track), 220, 308, and 315. Advanced studio production techniques in music production with introduction to digital multitrack recording, recording studio procedures and business practices, typical equipment set-ups, ancillary equipment, advanced microphone techniques and advanced digital audio workstation applications. Aesthetic topics as they relate to music recording and production and current commercial music industry trends.

**414 Advanced Projects in Music Production (4)**

Prereq: audio sequence major (music track), 413. Advanced music recording and product development. Album production from artist development to CD mastering and replication will be covered.

**415 Audio Post-production for Moving Image (4)**

Prereq: audio sequence major (audio post-production track) 220, 240, 308. Audio post-production for moving picture. The course will explore the technical and aesthetic aspects of sound as it relates to the moving image. Mixing to picture, SMPTE synchronization to video, Foley sound effects, dialogue replacement, and music for picture will all be covered.

**418 Producing for Video (4)**

Prereq: 240, 231, video sequence major; C or better in 202, permission. Developing programs for commercial, public, and corporate television. Covers program research, development, testing of program concepts, and the production process.

**419 Advanced Video Project Design (4)**

Prereq: 240, 231, permission. Special projects in dramatic production for visual media.

**421 Nonbroadcast Video Systems (4)**

Prereq: C or better TCOM 202 & 240; jr. or sr. Study of use and management of telecommunications media in corporate, industrial, medical, educational, military, governmental, and public service institutions.

**425 Digital Video Post-production (4)**

Prereq: 240, 231, video major, C or better in 202, footage, permission. Explores postproduction as design. Students will work on the process of assembling and manipulating previously existing material including video footage and material from print, CD-ROM, Internet, computer disk, and audio from various recorded media.

**430 Script Analysis (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Analysis of narrative media scripts, programs, and films with special concentration on their construction, audience response, and factors in effectiveness.

**431 Screenwriting for Film and Television (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Writing and critique of form, structure, and presentation of dramatic programs, series, and films.

**432 Advanced Screenwriting for Film and Television (4)**

Prereq: 202 or perm. Advanced writing course in which the experienced student creates substantive scripts.

**440 Public Telecommunication (4)**

Prereq: sr nonmajor; C or better in 202 and sr major. Historical development, current status, and challenges to public broadcasting.

**453 Telecommunications Law and Regulations (4)**

Prereq: C or better in 202 and jr or sr. Sociopolitical control of telecommunications; effects of law and regulations upon telecommunications policy and operation.

**454 Personal Values in Telecommunications (4)**

Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Explores the nature of personal values and surveys the values that have shaped and are shaping American culture. Examines the role of the individual within media institutions and media within American culture.

**459 Electronic Media Research (4)**

Prereq: nonmajor jr or sr; major jr or sr and C or better in 202. Various methods, techniques, and applications of audience study in broad-casting and cable; includes study of current rating services.

**461 Electronic Media Financial Management (4)**

Prereq: 360 nonmajor; 360, MGT sequence, and C or better in 202 major. Consideration of fiscal problems in operation of radio, television, and cable industries, with special emphasis on economics and financial policies.

**463 New Technology (4)**

Prereq: sr nonmajor; C or better in 202 and sr major. Examination of emerging technologies of tele-communications, their origins, audiences, regulations, interrelations with other media, and specific applications.

**464 Cable Communication (4)**

Prereq: sr nonmajor; C or better in 202 and sr major. Critical examination of cable industry, including technical aspects, franchising; programming, local, state, and federal regulation, public interest service, and cable overseas.

**465 Satellite Communications (4)**

Prereq: sr nonmajor; C or better in 202 and sr major. Role of satellites in global communications from historical, technical, regulatory, economic, political, and programmatic perspectives.



**475 Politics and the Electronic Media (4)**  
Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Examines role of electronic media in election campaigns through study of campaign strategy, polling, commercial advertising, and news coverage.

**483 Children and Television (4)**  
Prereq: nonmajor jr or sr; major jr or sr and C or better in 202. Explores the many issues that define the relationship between children and television: the variety of television programming available for children; the unique perspective children bring to television; the public debates over the effects of television on children; and the responsibilities of the industry, the government, and adults.

**481 Women in Media (4)**  
Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Examines representation of women in media through an exploration of individual attitudes and values with respect to culture, sexism, and content analysis of media.

**482 Documentary Genres (4)**  
Prereq: jr or sr nonmajor; C or better in 202 and jr or sr major. Explores the various genres of documentary video and film with a particular emphasis on television documentary and recent video works. Deals with such topics as historical development, factuality and truthfulness, objectivity, and ethics. Assignments and discussion are based on an extensive schedule of screenings.

**485 African-American Televisual Images (4)**  
Prereq: nonmajor jr or sr; major jr or sr and C or better in 202. Investigates the construction of televisual imagery, stereotypes, and counter-images of African-American people from the inception of the television age (1948) to the present.

**486A Age, Class, Gender, Race, Sexual Orientation (4)**  
Prereq: nonmajor jr or sr; major jr or sr and C or better in 202. Examines the representations of age, class, gender, race, sexual orientation in various media (mainstream and alternative), as well as perspectives for interpretation.

**486Y Athens Video Works (1-4, max 12)**  
Prereq: Perm and completion of contractual agreement with A.V.W. faculty advisor. Colloquium and advanced practicum for producers, directors, and managers in Athens Video Works.

**486 Colloquium in Telecommunications (1-5)**  
Prereq: perm. Intensive study of special topics in field of telecommunications.

**490 Internship in Telecommunications (2-16)**  
Prereq: jr or sr and perm. Telecommunications experience under auspices of cooperating organization, with paper and journal submitted detailing intern's experiences. Only 4 hrs can be used to satisfy TCOM electives.

**497 Independent Production Projects (1-4, max 12)**  
Prereq: perm and written proposal. Independent projects in audio and video production.

**498 Special Problems (1-4, max 12)**  
Prereq: written proposal and perm.

**499 Independent Readings in Telecommunications (1-4, max 12)**  
Prereq: written proposal and perm.

## Theater (THAR)

The following courses of instruction in theater provide further clarification of the curricular requirements and models outlined in the School of Theater section of College of Fine Arts under Colleges and Curricula. All theater majors maintain close contact with their assigned advisor for guidance and clarification in programming. If

you have not been assigned an advisor, contact the School of Theater office on the third floor of Kantner Hall. Further information concerning course listings is available from the School of Theater office.

**090 Lunchbag Theater Seminar Series (0)**  
Seminar and discussion about trends in theater scholarship, production, and performance techniques. May be repeated.

**101 Introduction and Orientation to the Theater as a Profession (1)**  
(fall) Acquaints theater majors and other interested students with professional theater. Examines varieties of theater institutions (educational, commercial, regional, etc.), role of administrator, producer, and director and historical background for state of American theater.

**105 Practicum in Management (1-4)**  
Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

**110 Introduction to Performance (2)**  
Prereq: theater major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, development of physical and vocal freedom through improvisation and theater games.

**111 Acting Improvisation I (2)**  
Prereq: theater major. Verbal and nonverbal improvisation. Emphasis on presence, spontaneity, action, and invention through exercises and improvisations.

**112 Introduction to Performance Warm-up (2)**  
Introduction to the study and practice of the actor's physical and vocal warm-up for rehearsal, training, and performance.

**113 Acting Fundamentals I (4)**  
Prereq: non-major. Introductory study of acting and actor. Emphasizes preparation of self and text, exploration of space, and development of physical and vocal freedom through improvisation and theater games.

**130 Design Principles for the Stage (3)**  
Principles of scenography design. 2 lec, 1 lab.

**131 Practical Elements of Stagecraft (3)**  
Principles of technical production. 2 lec, 1 lab.

**135 Practicum in Production Design (1-4)**  
Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

**150 Viewing Performance (2)**  
Integrates classroom and student life activities at the University by combining the OU Artist Series and major productions of the schools of Comparative Arts, Music, Dance, and Theater with seminar course dealing with characteristics of the medium and artistic concerns. A two-hour seminar precedes and follows each of the four performances. No credit to those with credit for CA 150, DANC 150, or MUS 150.

**151 Fundamentals of Playwriting (3)**  
Prereq: theater major or theater minor. Introduction to the principles and practices of dramatic writing.

**170 The Theater Experience (4) (2H)**  
Exploration of nature and function of theater as art form through exploration of performer/space/audience interrelationship. Attendance at selected rehearsals and performances of Ohio University Theater productions augment lecture and discussion sessions. Attendance at selected professional theatrical performances may be included.

**171 Play Analysis (3) (2H)**  
Introduction to text analysis based on premise that understanding of play's text is important step toward understanding both performance of that play and means by which that performance is created. Attendance at Ohio University Theater productions is important augmentation to class lectures and group discussions.

**172 Elements of Performance (3)**  
Prereq: theater major or theater minor. Introduction to the elements of performance that create theater and drama, including text, performer, spectacle, spectator, and performance space. The emphasis is on the analysis of the text, how the text works as part of the performance, and how the text is brought to life in performance. Attendance at Ohio University Theater productions is required.

**201 Play Production (4)**  
A study of all the areas associated with the production of a play. Students have the opportunity to apply classroom theory in a practical production environment.

**205 Practicum in Management (1-4)**  
Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

**207 Practicum in Production Stage Management (5)**  
Prereq: Soph only. Supervised lab practice as a production stage manager for one of the School of Theater plays.

**210 Acting I (4)**  
Prereq: theater major and perm. Principles and techniques of acting with emphasis on playing action (Stanislavsky). Self-discovery, warm-up techniques, theater games, improvisation, monologue exercises, preliminary scoring techniques, and script analysis techniques for actors underline this introduction.

**211 Acting II (4)**  
Prereq: theater major and perm. Principles and techniques of acting with major emphasis on action and characterization. Scenes and monologues from American and other modern and contemporary drama.

**212 Acting III (4)**  
Prereq: major, 210 or 211, and perm. Long duet scenes, multi-character scenes, and short plays for study and performance. Grad directors and public performances are frequently incorporated into final work.

**213 Acting Fundamentals II (4)**  
Prereq: 110 or 113. Study of acting and the actor from the point of view of strengthening concentration and commitment to performance tasks; introduces principles of text and character scoring.

**215 Practicum in Acting (1-4)**  
Prereq: soph, audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

**216 Introduction to Stage Movement (2, max 4)**  
Prereq: theater major or perm. Introduction to physical and movement elements of the actor's craft and stage performance, including neutral presence, alignment, walking, and availability. May be repeated.

**217 Introduction to Voice (2, max 6)**  
Prereq: theater major or perm. Individual and group instruction in basic elements of voice training for the stage. May be repeated.

**218A Voice/Speech Training for Broadcasters: Lessac Approach (2)**  
Group and individual instruction in basic elements of vocal training through Lessac system.

**218B Voice/Speech Training for Broadcasters: Lessac Approach (2)**  
Prereq: 218A. Continuation of 218A; see 218A for description; must be taken in sequence.

**218C Voice/Speech Training for Broadcasters: Lessac Approach (2)**  
Prereq: 218B. Continuation of 218A 218B; see 218A for description; must be taken in sequence.

**227 Practicum Stage Management (2-4)**  
Prereq: 218B. Continuation of 218A 218B; see 218A for description; must be taken in sequence.



**230 Stagecraft: Scenery (3)**

Prereq: perm. Supervised practical Stage Managing one of the School of Theater's plays.

**231 Stagecraft: Lighting (3)**

Prereq: 131. Procedures and practice in theatrical production; practical experience.

**232 Stagecraft: Costume (3)**

Prereq: 131. (spring) Procedures and practices in theatrical production; practical experience.

**233 Theatrical Design Skills (4)**

Prereq: perm. An introduction to fundamental design skills, visual research, drafting, model construction, and script analysis as applied to design.

**235 Practicum in Production Design (1-4)**

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

**237 Basic Makeup (1)**

Theory and practice of stage makeup. 1 lec, 1 lab.

**250 Playwriting I (4)**

Prereq: 151. Introduction to theories of playwriting in particular, and dramatic writing in general. Students will be introduced to basic structure, idea development, character and plot development.

**270 Theater History I (4)**

Development of theater and drama in prehistoric, Greek, and Roman periods. No credit to those with credit for CA 270.

**271 Theater History II (4) (2H)**

Development of theater and drama in medieval and Renaissance periods. No credit to those with credit for CA 271.

**272 Theater History III (4) (2H)**

Development of theater and drama from Renaissance to modern. No credit to those with credit for CA 272.

**297T Theater Tutorial (1-15)**

Prereq: perm. Subject matter of course arranged by tutorial student in consultation with School of Theater tutorial advisor.

**298T Theater Tutorial (1-15)**

Prereq: Honors Tutorial. See description for 297T.

**299T Theater Tutorial (1-15)**

Prereq: Honors Tutorial. See description for 297T.

**305 Practicum in Management (1-4)**

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management. May be repeated.

**307 Practicum in Production Stage Management (5)**

Prereq: juniors only. Supervised lab practice at the junior level as the production stage manager for one of the School of Theater plays.

**310 Audition Technique and Practice (3)**

Prereq: performance major or perm. Preparation of audition materials, experience in various audition spaces, development of techniques for cold reading, solo and duet, "scene of choice," and the development of positive attitudes toward the audition.

**311 Improvisation II (2)**

Prereq: performance major or perm. Advanced exploration of non-scripted performance modes and creative presence through improvisations and exercises.

**312 Scene Study I (2-4)**

Prereq: performance major or perm. (spring) Advanced undergraduate actors rehearse and perform in scenes or short plays, sometimes directed by faculty or 2nd-yr grad directors.

**313 Acting Studies I (4)**

Prereq: 210 or 213. Continuation of work begun in 213 with special application to scene work.

**314 Theater Performance: Selected Topics (2-3)**

Prereq: performance major, perm. Advanced performance studio. Explores nontraditional performance and contemporary drama. Emphasis is on the performer as creator. Guest artists may be brought in to enrich the class experience. May be repeated.

**315 Practicum in Acting (1-4)**

Prereq: jr, audition. Supervised lab practice in rehearsal and public performance of roles. May be repeated.

**316 Movement Theater I (3, max 9)**

Prereq: jr. performance major or perm. (fall) Principles and techniques of theater movement. May be repeated

**317A Voice for the Stage I (3)**

Prereq: performance major. (fall) Principles and practice in vocal action for stage.

**317B Voice for the Stage II (3)**

Prereq: 217C. Principles and practice in vocal action for stage.

**317C Voice for the Stage III (3)**

Prereq: 317B. Principles and practice in vocal action for stage.

**318 Accent Modification (2)**

This course is designed for international students and teaching assistants who wish to improve their speech, pronunciation skills, modify accents or regionalisms for a more effective communication. Exercises to address resonance, projection, and pitch intonation will also be introduced.

**327 Practicum Stage Management (2-4)**

Prereq: perm. Supervised practical experience Stage Managing one of the School of Theater's plays.

**330 Elements of Technical Direction (4)**

Prereq: perm. Introduces technical theater students to the mechanics of structures, as well as the management skills related to the work of the contemporary technical director.

**331 Theory of Lighting (4)**

Prereq: 231 and perm. (fall) Creative processes in design and execution of lighting for proscenium and non-proscenium forms.

**332 Costume Design I (4)**

Prereq: perm. Application of principles of design to stage costuming, with emphasis on figure drawing, characterization, and conceptualization.

**333 Fundamentals of Scene Painting (1-4)**

Basic materials, techniques, and theory of painting for the stage.

**334 Scene Design (4)**

Prereq: 233. Principles and projects in scene design.

**335 Practicum in Production Design (1-4)**

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound. May be repeated.

**336 Props and Crafts Techniques (4)**

Prereq: perm. An introduction to theatrical crafts, casting, and soft sculptural construction techniques and materials, as well as painting and decorative techniques.

**336A Digital Drawing for Theater: Photoshop**

Illustration techniques. Prereq: perm. This course uses Photoshop to teach digital drawing and painting techniques, collage and layering techniques, and photo correction and reproduction techniques for theatrical design research, illustration, and digital portfolio development.

**336B Digital Drawing Topics (1-4)**

Prereq: perm. This course teaches digital drawing, drafting, rendering, modeling, illustration, and photo reproduction skills necessary for theatrical designers and technicians engaged in production design and construction processes, research and portfolio development.

**337 Advanced Makeup (3)**

Prereq: 237. Caricature, 3-dimensional and non-realistic makeup; rubber prosthesis.

**338 History of Costume (4)**

Development of dress and influence of cultural factors from the Greeks to 1900.

**345 Ohio Valley Summer Theater Practicum (1-6)**

Prereq: perm. Supervised practice and experimentation in the company operation of a community theater performance project. May be repeated for credit.

**350 Playwriting II (4)**

Prereq: 250 and perm. Theory and practice of dramatic writing.

**397T Theater Tutorial (1-15)**

Junior-level tutorial class for students in the Honors Tutorial College.

**398T Theater Tutorial (1-15)**

See description for 397T.

**399T Theater Tutorial (1-15)**

See description for 397T.

**402 Theater Management (4)**

Prereq: Junior. Procedures and practices in management of theater, including theater publicity, marketing, finance, ticket office, and house management.

**405 Practicum in Management (1-4)**

Prereq: perm. Supervised lab practice in problems of theater publicity, finance, and house management.

**407 Practicum Production Stage Management (5)**

Prereq: seniors only. Supervised lab practice as a production manager for one of the School of Theater's advanced level plays or related production.

**409 Independent Studies in Administration (1-6)**

Prereq: perm and independent study form. Allows advanced theater major to develop study project in aspects and problems of theater administration beyond normal course offerings.

**410 Scene Study II: Selected Topics (2-4, max 12)**

Prereq: performance major or perm. Advanced performance studio. Topics vary. Genre- or topic-specific courses may include 20th-century innovators, Beckett and beyond, second series, radio drama, and theater performance. Courses emphasize application of research and studio experience with significant drama. May be repeated.

**411 Acting IV (3)**

Prereq: performance major or perm. Advanced performance studio. Topics vary. Exploration of acting through exercises and scenes with specific genres and topics, including Ibsen/Chekhov and Shakespeare. Examines specific requirements, similarities, and differences in historically significant theater. May be repeated.

**412 Acting for Camera (3)**

Prereq: perm. Performance experience in television acting with special emphasis on studio policies and operations, relationship of talent to the whole process of television production, analysis of camera performance techniques, and the production of scene work. This course is offered in conjunction with TCOM 419.

**413 Acting Studies II (4)**

Prereq: 313. Application of principles and techniques learned in earlier classes to a full text leading to public performance.

**414 Acting V: International Performance—Selected Topics (3)**

Prereq: performance major, perm. Advanced performance studio. Emphasizes exploration of specific performance skills in verbal and nonverbal international performance. In a given quarter, the focus can be as broad as drama of a region or country (Africa, Latin America, Asia,

Middle East, Argentina, South Africa, Indonesia, Chile, India) or as specific as dramatic forms, authors, movements, and methods (Noh, ritual drama, masked dance and drama, Athol Fugard, Zakes Mda, Augusto Boal and the Theater of the Oppressed, Tadashi Suzuki, etc.). Guest artists may be brought in to enrich the class experience. May be repeated.

#### 415 Practicum in Acting (1-4)

Prereq: senior, audition. May be repeated. Supervised lab practice in rehearsal and public performance of roles.

#### 416 Movement Theater II (3, max 9)

Prereq: sr. performance major or perm. Advanced principles and techniques of movement theater, including improvisation and composition. May be repeated.

#### 417 Advanced Voice Training: Dialects and Scansion (2)

Prereq: sr. performance major. (spring) Introduction to and experience in scanning essentials of versification as it particularly applies to reading of dramatic lines. Introduction to study of dialects through use of study tapes and other source materials.

#### 418 Senior Project (2-4)

Prereq: sr. theater major. Written component (short paper) of the performance project designated by the student and advisor as the senior project.

#### 419 Independent Studies in Acting (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of acting beyond normal course offerings.

#### 420 Advanced Directing (4)

Prereq: Senior BFA/BA THAR major or perm. for minors. Practical experience in directing for stage.

#### 425 Practicum-Directing (1-4)

Prereq: perm, max 12 hrs.

#### 426 Stage Management (3)

Prereq: perm. (fall) Theoretical course in techniques and methods of professional stage management.

#### 427 Practicum in Stage Management (2-4)

Prereq 426 and perm. Supervised practical experience in stage managing of University theater or related production.

#### 428 Stage Management II (4)

Prereq 426 The stage manager's role in various different professional theater organizations and their union contracts will be covered. Theater internships, resumes, and cover letters will be taught.

#### 429 Independent Studies in Directing (1-6)

Prereq: perm and independent study form. Advanced theater major can develop study project in aspects and problems of directing beyond normal course offerings.

#### 430 Advanced Stagecraft (4)

Prereq 230, 231, 232. Advanced problems of scenery construction, handling, and rigging.

#### 430A Introduction to Stage Rigging (4)

Prereq 430 This course focuses on safe and acceptable standards for stage rigging practices within the entertainment industry.

#### 430B Welding for the Theater (4)

An introduction to the materials and techniques of welding and metal fabrication for the scenic technician.

#### 430C Application and Technique for Theatrical Softgoods

Prereq 230 Introduction to contemporary theatrical fabrics and the creation of theatrical softgoods.

#### 431 Lighting Design II (4)

Prereq: 131, 231, 331 Provides the student opportunities for preparation and critique of

lighting design projects in a variety of theatrical contexts.

#### 432 Costume Design II (4)

Prereq: 332, 338. Application of principles of design to stage costuming, with emphasis on conceptualization and period work.

#### 434 Scene Design II (4)

Prereq: 334. Provides student with a series of design projects with an emphasis on portfolio preparation.

#### 435 Practicum in Production Design (1-4)

Prereq: perm. Supervised lab practice in design and execution of scenery, lighting, costumes, properties, and sound.

#### 436A Model Construction for the Scene Designer (4, max 8)

Prereq: perm. Introduction to the materials and techniques of model construction for the stage, including 1/4" and 1/2" scale models—experimental, working, and presentation models.

#### 436B Drafting for the Stage (4, max 8)

Prereq: perm. Fundamental and advanced problems of drafting for the stage, including plans, sections, front elevations, rear elevations, and details.

#### 436D Costume Period Patterning Techniques (4)

Prereq: perm. Introduction to draping and advanced period construction and patterning techniques. Advanced sewing ability is required.

#### 436F Properties Construction and Organization for the Stage (4)

Prereq: perm. To introduce the student to the organizational skills and craft techniques required to hold a job in a professional prop shop.

#### 437A Sound Design I (4)

Prereq: perm. Principles and functions of sound design for the theater.

#### 437B Sound Production (4)

Prereq: perm. Principles, characteristics, and techniques in the use of sound equipment for the theater.

#### 438A Historical Bases of Design I (4)

Prereq: major or perm. Survey of research techniques in history, the arts, and period "style" from Antiquity to Early Renaissance in Western Civilizations for the purpose of theatrical production.

#### 438B Historical Bases of Design II (4)

Prereq: major or perm. Continuation of 438A, covering the period from the High Renaissance to the present.

#### 439 Independent Studies in Production Design (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of production design beyond normal course offerings.

#### 440 Professional Theater Internship (1-16)

Prereq: perm.

#### 450 Advanced Playwriting (4)

Prereq: 350, playwriting major. Special problems in writing long plays.

#### 451 Playwrights Workshop (3, max 9)

Prereq: perm. Practical workshop experience for playwrights, directors, and actors with new scripts. May be repeated.

#### 459 Independent Studies in Playwriting (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of playwriting beyond normal course offerings.

#### 465 Practicum in Directing (1-4)

Prereq: perm. Supervised lab practice in planning and executing dramatic production.

#### 470 Tragedy (4)

Prereq: jr or sr. Study of tragic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 470.

#### 471 Comedy (4)

Prereq: jr or sr. Study of comic genre through both plays and critical and theoretical documents. No credit to those with credit for CA 471.

#### 472 Forms of Drama (4)

Prereq: jr or sr. Study of genres of melodrama, farce, and tragicomedies through examination of plays and critical and theoretical documents. No credit to those with credit for CA 472.

#### 473 Seminar in Theater History and Drama: Selected Topics (4, max 16)

Prereq: THAR or CA 270 or 271 or 272. An in-depth examination of a selected area of theater history and drama. May be repeated for credit.

#### 475P Practicum in Dramaturgy (2-6, max 24)

Prereq: perm. Practical experience as a dramaturg on School of Theater productions, including historical, textual, and biographical research, as well as audience outreach activities.

#### 477 American Theater and Drama (4)

Prereq: jr or sr. Study of significant movements and major playwrights of the American theater, with an emphasis on the 20th century.

#### 479 Independent Studies in Theater History and Criticism (1-6)

Prereq: perm and independent study form. Advanced theater major develops study project in aspects and problems of theater history and criticism beyond normal course offerings.

#### 497T Theater Tutorial (1-15)

Senior level tutorial class in theater subjects for students in the Honors Tutorial College.

#### 498T Theater Tutorial (1-15)

See description for 497T.

#### 499T Honors Tutorial (1-15)

See description for 497T.

## Tier III (T3)

Tier III, the final element of the General Education program, is a senior-level requirement for students who entered the University in September 1982 or after.

Two key ideas spurred the thinking that went into the creation of Tier III. One was structural, the other theoretical. The framers of the General Education Requirements believed that a solid and meaningful program of liberal studies should not be confined to basic courses taken largely during the freshman year, but should extend throughout an undergraduate's experience, enriching work in the upper division. The junior-level composition requirement, as well as Tier III, is a reflection of this conviction. Secondly, while there was wide agreement that work in the major was excellent for developing in students the powers of analysis—the ability to break things into smaller and smaller parts for detailed inspection and understanding—we realized that our curriculum offered few opportunities for students to develop a capacity for synthesis.

That capacity was defined as the ability to weave many complex strands into a fabric of definable issues, patterns, and topics. We wanted to nurture in our students the ability to understand that problems and issues are often only successfully approached from a variety of perspectives. To contribute to the preparation of men and women capable of handling complex intellectual and social issues, we needed to bring them together in courses specifically designed to confront broad topics from multiple perspectives.

**400 New Scholarship on Women: The Question of Difference (4)**

Prereq: sr, WS 100 and WS certificate student; course may not also count toward major requirement. Examines the question of sexual differences that plague and motivate contemporary feminist analyses. Explores new scholarship in diverse discipline that contributes to differences among women and between women and men.

**401 Seminar in Political Communication (5)**

Prereq: sr and permission; course may not also count toward major requirement. Investigates selected aspects of political communication.

**401A Images of Blacks in the American Mind (4)**

Prereq: sr, Tier II completion. Examines the nature, the sources, and the effects of ideas and attitudes about Americans of African descent that have pervaded American culture. Focuses upon images of blacks as bucks, coons, buffoons, improvident children, mammies, devoted Christians, etc., with a view of showing how widespread and deeply embedded these images have been in American culture and how they contributed to slavery and the subsequent exclusion of blacks from the mainstream of American life. Interdisciplinary in nature, the course uses the approaches and materials of a variety of fields of study—literature, art, film, history, the natural sciences, social sciences, popular culture.

**401B American Experience Through Novels and Films (4)**

Prereq: sr, 8 hrs humanities. Offers interdisciplinary perspective on aspects of American cultural experience and awareness of nation's fictional and cinematic contributions. Works of fiction (with occasional plays) and their film adaptations are studied for purpose of exploring issues, such as frontier, American dream, black/white relations, individualism versus collectivism, heroism, and feminism, pertinent to understanding of American experience.

**401C Race and Ethnicity (4)**

Prereq: sr, 8 hrs social sciences. Review of various theories of race. Critique of diverse definitions of ethnic groups. Due attention given to problem of ethnicity in international arena. Cross-national comparisons made of ethnic processes in developing countries, vis à vis ethnic processes in U.S., Western Europe, and Eastern Europe.

**402B Introduction to Alternative Agriculture (4)**

Prereq: sr and one PBIO course. Approaches agriculture through three disciplines: history, health, and environmental and plant biology, particularly as latter relates to growth of plants in soil. Historical dev. of current agricultural problems is examined, and practical, biologically based solutions are proposed. The relationship between soil infertility and the health and disease of animals and humans is also examined. Problems relating to Third World cultures are emphasized.

**404A Reconstructing Roman Slavery (4)**

Prereq: sr. Attempts to reconstruct slavery in Roman world from the materials that have survived, including descriptions of slavery and slaves by the slave owners, literature that features characters who are slaves, and archaeological remains that illustrate the conditions of slavery.

**406A Peace Corps Volunteers and Third-World Development (4)**

Prereq: sr or perm; Tier II completion. Focuses on traditional societies throughout the world and on the interaction between people in those societies and "outsiders" from richer communities. Included are presentations by returned U.S. Peace Corps volunteers. Traditional societies, the impact on those societies of rapid social and economic change, challenges of intercultural communication, problems of project administration, and the ecological and environmental results of interaction.

**407A Darwin Among the Poets: England in 1859 (4)**

Prereq: sr and one course in English, political science, biology, or history. 1859 saw publication in England of an unusually large number of major works in various fields. This course examines climate of ideas that produced these works, the works themselves, and ideas and issues that resulted from them. Deals with Victorian (and modern) issues that touch on literature, science, politics, history, sociology, and religion.

**407B The Autobiographical Quest (4)**

Prereq: sr and one 200-level ENG course or perm (not open to students who have had 414A). Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, and social—as appropriate.

**407C The Existential Vision: Philosophy, Literature, and Film (4)**

Prereq: sr and one course in philosophy, literature, or film. Seeks to synthesize contemporary philosophy, literature, and film by studying themes introduced by existential philosophers but also treated by post-WW II writers and filmmakers.

**407E American Indian Cultures Through Literature (4)**

Prereq: sr, Tier II completion. Offers students opportunity to explore U.S. history from perspective of Native American scholars as well as traditional historians, anthropologists, and literary scholars.

**407G Feminist Film: Aesthetics and Politics (4)**

Prereq: sr, 12 hrs in English, Film, and/or Women's Studies. Draws on three areas of study: English, Film, and Women's Studies. This course examines issues such as visual politics of representation and feminist film language; it explores the strategies of resistance historically used by women artists to examine and question patriarchal and Eurocentric ideology.

**407H Shakespeare and Psychology (4)**

Prereq: sr, ENG 301, 303 or PSY 332. Examines Shakespeare's delineation of character psychodynamics and, at the same time, examines how psychological interpretation makes plain or illuminates Shakespeare's characters. Course is part of larger attempt to explore ways in which literary and psychological interpretation complement each other.

**407L The Literacy Crisis: Origins and Effects (4)**

Prereq: sr. Are the literacy skills acquired by students in schools in the United States adequate to the demands made by industry and society? Are the legislative and educational reforms designed to raise those levels likely to succeed or fail? This course will attempt to answer these questions. Only at OU—Eastern Campus, St. Clairsville.

**407N Renaissance Texts and Sex (4)**

Prereq: sr, 8 hrs upper div. ENG or HUM. Through the disciplines of law, literature, social history, and theater, examines female and male sexuality, particularly state versus individual control, as evidenced in Renaissance theater and drama and Renaissance courts and law. Studies and synthesizes 16th-, 17th-, and late 20th-century attitudes about sexuality. Includes study of family law issues, property law, and slander through the texts of London consistory (Bishop's) court cases, legal texts, theater treatises, two Shakespearean dramas, and film and stage versions of these dramas from the last three decades.

**407P Sin and Sex in Western Legal History (4)**

Prereq: sr, 8 hrs Tier II humanities. Using religious and philosophical texts from Plato to Thomas Aquinas, letters, legal documents, poetry, prose, rule books, art, and music, this course examines Western attitudes toward sex and sexuality and

considers such questions as these: what do we mean by "masculine" and "feminine" and what do masculinity and femininity have to do with sin and sex? What are the connections between sin, sex, and politics?

**407Q Kiss Me Deadly: Film Noir/Novels in the 40s and 50s (4)**

Prereq: sr, 8 hrs Tier II humanities, Film 201 or 202. Explores the literary and cinematic world of "noir," a critical term that refers to certain "black" or darkly-lit films of the 1940s and 1950s and to American, "hard-boiled" detective fiction of the same period, so-called "roman noir."

**408A Environmentalism in America (4)**

Prereq: sr. Topical survey of schools of thought, themes, and specific issues in American conservation in past century. 19th-century transcendental thinkers are baseline for survey. Contemporary environmental issues and debates provide capstone for course.

**408B Landscape and Culture (4)**

Prereq: sr and two courses or hours in social science. Considers Anglo-American landscape as key to understanding Anglo-American culture and its myths (e.g., frontier) and stereotypes (e.g., individualism).

**409A Geologic Resources (4)**

Prereq: sr, 4 hrs GEOL. Considers the interplay between extraction and use of mineral/energy resources and society. Plate tectonics and the rock cycle serve as examples of synthesis within the disciplines of the geological sciences. More interdisciplinary exercises in synthesis examine some of the geopolitical implications of resource distribution and how humans adapt their resource utilization as conditions change. Culminates with study of how the earth, oceans, and atmosphere interact as a system through which carbon moves and affects climate on multiple time scales. Effects of this system on society and vice versa are considered with regard to resource use.

**409B Bahamas: An Island as an Environment (4)**

Prereq: sr. Course takes place in Bahamas during winter intercession and examines environmental issues in tropical ecosystems. The Bahamian islands provide a model for understanding the processes impacting both long-term and immediate results in the interplay of rural and urban priorities and nature in a tropical environment.

**410A Philosophies of History (5)**

Prereq: sr and one course in HIST or PHIL. Study and discussion of different philosophies of history dating from ancient to modern period. Analysis of how thinkers have taken empirical data of history and shaped them into metaphysical form.

**410B The Age of Michelangelo (4)**

Prereq: sr. Michelangelo's life (1475–1564) spans two most significant movements in early modern European history: Renaissance and Reformation. All of his work, artistic and literary, reflects these movements. By studying his life and work, one is able to acquire richer and more lasting insight into and appreciation of Renaissance and Reformation. Deals with philosophy, theology, architecture, art history, literature, and history.

**410C The Folklore of Espionage: The Spy in Novel, Film, and History (4)**

Prereq: sr, 8 hrs Tier II social sciences or humanities. Presents the historical treatment of intelligence operations and espionage which have been depicted in literature and on film during the 20th century. Major themes include "The Spy as Hero"; "The Spy as Anti-Hero"; "Moles"; "Double Agents in Espionage"; "The Ambiguities of Cold War Espionage"; "Assassination"; "Espionage as Comedy"; and "Games Intelligence Services Play." Five novels and nine films that deal with these and other themes are examined.

**410F Gender in the Renaissance (4)**

Prereq: sr; Tier II completion; HIST 101, 122, or 123. Examines gender in the Renaissance, using

history, anthropological perspectives, and gender analysis. Focuses on seven case studies, ranging from Joan of Arc to colonial Virginia and New England in the 17th century.

#### 411A Linguistics and Semiotics: The Interpretation of Cultures as Texts (4)

Prereq: sr, LING 270 or perm. Descriptive and functional linguistic approaches are applied to analysis of cultural phenomena and interpretation of their meanings for present and past societies.

#### 411C Language and Mind (4)

Prereq: sr or perm; one 300-level LING, PHIL, PSY, or ANTH. Evidence drawn from Noam Chomsky's theory of language will be brought to bear on the question of the place of the mind/brain in the natural world. Chomsky's claims touch on issues of central importance for linguistics, psychology, philosophy, and anthropology, and have had a decided impact on all of these fields over the past 30 years.

#### 413B Science, Culture, and Human Values (4)

Prereq: sr and completion of Tier II in humanities and natural sciences. Examines nature of art and scientific inquiry by means of various 20th-century attempts at integration.

#### 413D Irony in Literature and Society (4)

Prereq: sr or perm, one Tier II course in literature. Exploration of ironic elements in literature, media, and society, with special attention to differences between ironic structures created through language and those found in visual arts and in music.

#### 414A The Autobiographical Quest (4)

Prereq: sr, 4 hrs PHIL; or perm; not open to those who have had 407B. Study of selected autobiographies with particular emphasis on individual's quest for meaning or value in course of life. Works examined and compared from various perspectives—literary, philosophical, religious, psychological, social—as appropriate.

#### 414B Liability and Responsibility in the Law (5)

Prereq: sr, 8 hrs humanities or social sciences. Study of some of major problematic areas in ascription of legal liability and responsibility. Chief areas of concern are: (1) grounds on which courts determine who or what is causally responsible for what occurred; (2) extent to which finding of legal responsibility should take account of intentions, knowledge, recklessness, etc.; of accused; and (3) whether only sane individuals should be held legally responsible.

#### 414C Semiotics in Communication (5)

Prereq: sr. Semiotics is concerned with systems of signs, their interrelationships, and the images used to transmit such systems. This course introduces students to structures and processes of communication through the use of semiotics.

#### 414F Stories and the Pursuit of Meaning (4)

Prereq: sr. To achieve a critical understanding of the human pursuit of meaning achieved through "resonant" storytelling, this course examines a psychological foundation of storytelling, a philosophical taxonomy of stories, epistemological clues for assessing stories, the postmodernist discrediting of all stories, and the Biblical, Buddhist, African, Marxian, and existentialist traditions as bearers of resonant stories.

#### 415A Entropy and Human Activity (4)

Prereq: sr. Examines the application of the concept of entropy to human society as a whole, through the critical reading and discussion of works by Jeremy Rifkin and Richard Fisher. Energy is conserved, but most physical processes involve transformations of available energy into forms less readily available. Rifkin claims that civilized humanity should recognize its priorities to minimize increases of entropy, which characterize such transformations. Several topics in the physical sciences are presented in some detail to provide adequate technical background to evaluate Rifkin's claims.

#### 415B Music, Instruments, and Physics (4)

Prereq: sr, hs algebra, and Tier II PHYS or MUS. Studies the physical principles of sound production in musical wind instruments. Examines historical instruments, their modern versions, and the modern wind instrument from both musical and physics perspectives. Simple instruments will be designed, built, and played in class, then examined for their suitability as popular musical instruments.

#### 415C Physics and Extraterrestrial Life (4)

Prereq: sr. Focuses on the necessary physical conditions (such as how planets are formed), the chemical and biological requirements for Earth-like life, and the problems for life (such as large meteorites that bombarded the early solar system and also radiation hazards) once it gets started. A second aspect of the course is to examine and evaluate possible evidence of extraterrestrial life, from reports in the media and other sources. The social consequences of cult beliefs and how people can be fooled are discussed.

#### 416D Human Values in a Technocratic Age (4)

Prereq: sr, Tier II completion. Examines relationship between scientific inquiry, technology, and values. What impact has ascendance of scientific ethos had on values? What is the relationship between scientific inquiry and technology? Should scientific inquiry and technological development be subject to ethical constraints? Traces historical impact of science and technology on Western culture.

#### 417A Cognitive Processes in Writing (4)

Prereq: sr. Examines the mental processes involved in creating written communication. Considers the role of linguistic constraints, knowledge, and emotion in writing and how writing changes developmentally. The influence of writing on thought and knowledge change is considered.

#### 419D Emotion, Power, and Gender (4)

Prereq: sr or perm; ANTH 101, SOC 101, or PSY 101. Examines the role played by emotion in our private as well as our public lives. A review of various theories regarding the nature of emotion will be presented, followed by discussions of the nature, acquisition, and maintenance of power as well as the uses of power and the relationships between power and emotion. The last section of this course is concerned with the relationship between gender and power, gender and emotion, and how these two broad areas dovetail, providing an explanation of the role of emotion in our everyday public and private lives.

#### 419F Images of the Homeless (4)

Prereq: sr. Explores images of the homeless in literature, music, film, and the social sciences, with an emphasis on depictions of the homeless in the 20th century United States. Social science, cultural studies, and literary/rhetorical analysis are used to explore the sociohistorical development and impact of various images of the homeless. Students will also do creative projects, such as writing fiction, poetry, songs, etc., in which they develop their own depictions of homelessness.

#### 419G Images of the Rainforest: Myths, Competitive Realities, and Alternative Futures (4)

Prereq: sr. Examines how early explorers created images of the rainforest with unlimited resources, how artists and writers reinforced or challenged mythical views of rainforests, how images of rainforests are depicted in indigenous peoples' art, stories, in art, and medicine, and how their images differ from westerners. Ecological perspective will also be examined, with an emphasis on the images of interactions and connections between rainfall, climate, soils, rivers, plants, and animals. Images of political and legal rights, local action, and global awareness are discussed, and links between communities and their impact on the rainforest's future are examined.

#### 419K Culture and the Sky (4)

Prereq: sr, ANTH 101 or PSY 100 or permission to investigate both historically and cross-culturally

the astronomies of several societies, focusing on the relations among conceptual systems, cultural practices, and empirical realities. The roles of scientific reasoning, religious experience, and aesthetic expression will be explored in each case, while the underlying politics in the production of knowledge will be problematized throughout the course.

#### 420B Evolution and the Challenge of Creationism (4)

Prereq: sr, one Tier II natural science course. Examines two ways of knowing—science and religion—as exemplified in controversy on evolution and creationism. Claims and evidence for evolution and special creation, issues and strategies of conflict, arenas of confrontation, and implications of outcomes for both science and theology are discussed.

#### 420C Biology of Human Social Behavior (4)

Prereq: sr; BIOL 101, BIOS 103, or BIOS 172. Evolutionary perspectives on human social behavior are examined in light of data from the social sciences. Behaviors such as bonding and communication are seen to arise from both biological bases and social experience.

#### 420D Biology Through Biography (4)

Prereq: sr. Explores the act of discovery using major biological breakthroughs as the central theme. Integrates the disciplines of science, history, and philosophy by employing a biographical consideration of selected individuals. Uses the individual as a focal point to attain a sense of scientific discovery and considers the impact of the period's beliefs and thoughts on the development of the individual and, in turn, the individual's impact on both the disciplines and society as a whole.

#### 420E Disease and Discovery: The Impact of Biology on History (4)

Prereq: sr; BIOS 103, 170, or BIOL 101; 4 hrs HIST. Explores ways humans have developed and changed their environment and themselves after first studying how environment and disease have influenced their physical and cultural development—how humans compete, migrate, and change in an ever-changing environment and how humans have brought numerous species, including their own, perilously close to extinction.

#### 420F Dynamic Systems: Change, Chaos, and Fractals (4)

Prereq: sr, MATH 263B. Introduction to the study of dynamic systems focusing on the major classes of dynamic systems, modeling of the systems, and application of these concepts to real-world situations. Provides answers to such questions as: Why can we perfectly predict the activity of a pendulum yet not accurately predict the weather? Is the similarity of physiological homeostasis and household thermostats superficial or fundamental? What are fractional dimensions, and why do they describe the world better than the geometry you learned in high school?

#### 430A The Cultural Revolution of Computers and Information (4)

Prereq: sr. Examines role of information systems in impacting self, work, and society with emphasis upon a wide range of positive and negative assessments of how computer systems impact us.

#### 432A Seminar in Negotiation and Conflict Resolution (4)

Prereq: sr. Examines nature of conflict from systems point of view. Presents theories and techniques of negotiation as method of resolving or managing conflict. Examples of successful and unsuccessful negotiations studied. Examples drawn from many areas of conflict, including purchasing and selling, marriage dissolution, labor contracts, hostage negotiations, plea bargaining, and international peace and arms limitation talks. Differences and similarities at various levels of negotiation are noted. Concludes with mock negotiation.

**432B Working in the U.S.A. (4)**

Prereq: sr or perm. Provides students with an understanding of the social, cultural, economic, psychological, and political nature of work in the U.S.; an appreciation of individual reactions to work, as well as the resulting productivity in modern organizations; and a basis for understanding the employment relationships in modern organizations. Focuses on the institution as well as the impact of institutional policies on individual work behaviors and organizational productivity.

**432C Metaphors and Organization: Mgt. from Multiple Perspectives (4)**

Prereq: sr; ANTH 101, PSY 101, SOC 101, or POLS 230. Studies metaphors applied to the understanding of organizations and how a selected metaphor both informs and limits. Gareth Morgan's book, *Imagination*, guides discussions, examining various metaphors that are commonly employed and alternatives Morgan suggests. Discusses how these metaphors show up in elements of popular culture and applies them to real world cases in order to discover how understanding is shaped.

**432D Global Business Cultures(4)**

Prereq: sr, 4 hrs Tier II social sciences. Using case studies depicting cultural issues in eight different countries on four continents, this course examines the differences and cultures and how they may cause misunderstanding or conflict. It considers such questions as why have these differences developed? How do these differences jeopardize success? What can be done to neutralize these differences?

**432E Social Functions of the Legal System (4)**

Prereq: sr and 8 hrs Tier II social sciences. Examines the social functions of the legal system in the sense of an integrated process of social behavior and ideas. Focuses on underlying principles of the legal processes and various disciplines including the economic, historical, political, communication, and ethical forces that shape legal concepts and principles.

**432F Transforming Leadership (4)**

Prereq: sr and COMS 103 and MGT 200 or 202. Explores use of emotional intelligence in transforming leadership style through the integration of management and interpersonal communication. Developmental experiences provide assessments, challenge, praxis, and growth for transforming leadership with emotional intelligence.

**435A Communication and Racism (4)**

Prereq: sr and 18 hrs social sciences. Focuses on how racial prejudices are communicated and shared within different racial groups; analyzes how people of specific racial groups perceive and talk about members of other racial groups. Conflict theory and research is studied to gain insight into how interracial conflicts are expressed and managed.

**435B Black Communication Styles (4)**

Prereq: sr, COMS 103. Explores African American history through the eyes of notable black orators. Selected speeches from these orators will be analyzed in an attempt to understand the historical elements that comprise the unique African American style of communication.

**437A Images of War in Film, Television, and Literature in the 20th Century (4)**

Prereq: sr, one course in HIST or POLS. Uses a case-study approach to evaluate how our perceptions of war have been shaped by fictional and nonfictional treatments. Course materials include novels, short fiction, television news and documentaries, fiction films, and archival sources that focus on WWI, WWII, Vietnam, regional wars of the 1980s and 1990s, and the Gulf War.

**437C Media, Culture, and Identity (4)**

Prereq: sr and computer with Telnnet/Internet access. Explores aspects of identity as formed and informed by culture and media in a computer-mediated virtual learning environment.

**438A Women in the Information Age (4)**

Prereq: sr, 8 hrs social sciences or WS 100 or COMT 214. Investigates the effects of the "information age" on women's lives. Although information technologies have revolutionized the way we live and work, men and women have not been affected in the same manner. This course explores the reasons women have interacted much differently than men with the two primary emerging technologies—computers and telephones.

**446C Disabilities as Portrayed in the Media (4)**

Prereq: sr, Tier II social sciences. Examines the evolution of the media's portrayal of persons with disabilities. Specifically, by applying relevant interdisciplinary theories and perspectives, selected films and television programs will be analyzed to determine the extent and manner in which selected media have impacted on society's perceptions and attitudes.

**447 Natural Resource Conservation (4)**

Prereq: sr and GEOG 241; course may not also count toward major requirement. Examines themes in contemporary resource management, methods of resource assessment and evaluation, and selected case studies in sustainable management of renewable resources.

**447A Authoring Children's Information Books in Your Major (4)**

Prereq: sr, Jr. comp course. Offers an opportunity to integrate knowledge about creative writing, children's literature, and literacy education through the process of authoring two children's information books covering personally intriguing aspects and issues of each student's major disciplines. Students will achieve synthesis of these disciplines through the writing and publishing of information books, and sharing these books and expertise with local school children. Examines how children effectively learn to read and write, genre in children's literature, illustrating, and publishing techniques.

**450B Technology and Culture (4)**

Prereq: sr, Tier II completion. Intended to provide a synthesis experience for seniors on the topic of engineering and technology and their interactions with and effects on society. Students will have an opportunity to stand outside their particular major and to interact with other specialists to see what they can do to provide clarity of purpose and direction to the technological questions facing humankind.

**450C Society and New Technology (4)**

Prereq: sr, 8 hrs Tier II applied science and natural sciences. Examines past and present instances in which the course of adopting a technology has been affected by the influences of public and private institutions. Traces technology's path from the laboratory into functioning society and examines the obstacles new technology faces in becoming an integral part of mainstream society.

**454A Connections: Inventions and Natural Resources (4)**

Prereq: sr. Investigates the interrelationships between the manufacturing processes necessary to bring the concepts of invention to reality and the influence of limited natural resources on that endeavor.

**460A Visual Culture Studies (4)**

Prereq: sr. Various forms of visual culture including art, television, movies, advertising, fashion, domestic architecture, parks, carnivals, body piercing, etc. To discover new ways of understanding and appreciating visual culture, each form is analyzed through different theoretical approaches, including semiotics, feminism, post-structuralism, Marxism, multiculturalism, etc.

**461A Social History Through the Arts (4)**

Prereq: sr. An examination and comparison of social and political forces of two periods, the Elizabethan and the present, as expressed through the arts. Contemporary issues emphasized are changing gender roles, racism, the influence of African American arts

(particularly music and dance) and ethics related to freedom of expression and support for the arts.

**462B The Arts and People with Disabilities (4)**

Prereq: sr, Tier II social sciences. Interdisciplinary examination of the role played by the arts in the lives of people with disabilities. Issues of value, function, accessibility as consumers and artists, performing with a disability, utilization of creative arts therapies, public attitudes, and advocacy are explored.

**462C Music and Health (4)**

Prereq: sr. An interdisciplinary examination of the impact of music from historical, behavioral, medical, psychological, and technological perspectives. Small group discussion and music experiences will be used to explore music in a healthy lifestyle, music in medicine, therapeutic applications of music, music technology, and advocacy for people who have health impairments.

**463A Theatrical Space and Performance (4)**

Prereq: sr, Tier II completion. Examines the historical and contemporary interaction of two art forms, theater and architecture, in the design and construction of theaters. Considers the requirements and demands of theater and architecture and analyzes their synthesis in creating actual theater structures.

**463B Women Speaking: Then and Now (4)**

Prereq: sr. Examines the voice and speech composition of famous women orators throughout history. A comprehensive program of voice and speech training is introduced and practiced to improve the quality of the speaking voice and to develop power and range for a more confident, effective, and expressive communication.

**464A Cultural Traditions and the Arts (4)**

Prereq: sr. (fall) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Greek, Roman, Medieval).

**464B Cultural Traditions and the Arts (4)**

Prereq: sr. (winter) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (Renaissance, Baroque).

**464C Cultural Traditions and the Arts (4)**

Prereq: sr. (spring) Principal styles of Western art as mirrored in selected masterpieces of architecture, sculpture, painting, music, and literature. Specific works of art examined in relationship to one another and against background of ideas that animated life of their times (19th and 20th centuries).

**464E Madness in Culture (4)**

Prereq: sr, 8 hrs Tier II humanities. Synthesizes the understanding of madness in its different expressions, such as cruelty, sexuality, illusions, hallucinations, or intoxications, as documented by artists, philosophers, writers, drug users, and people known to engage in strange and bizarre behavior.

**470A Social Crises in Health Care Policy (4)**

Prereq: sr. Virtually every medical advance is accompanied by complex set of poorly understood ethical, legal, political, and economic considerations. Course provides students with opportunity to explore in depth all dimensions of crisis that have arisen involving practice of medicine or provision of health care.

**470B Sport Aesthetics (4)**

Prereq: sr or perm. An analysis of the aesthetic in sport by viewing various works of art when sport serves as the subject of the artist and by observing sport when sport is the medium for creating aesthetic expression.



**470C Chemicals: Health and Environment (4)**  
Prereq: sr or perm. Topics presented will include atomic and molecular structure, states of matter, acids and bases, polymers, corrosion, health-related issues (radon, formaldehyde, pesticides, asbestos), and global issues (ozone, greenhouse effect). Topics discussed with regard to their personal and environmental impacts.

**470D Alternative Health (4)**  
Prereq: sr, HLTH 202. Considers basic questions about health and healing from a wide variety of perspectives. Course content will focus on health practices considered alternative health care practices in the United States today. Assumptions underlying these alternative or complementary systems will be contrasted with traditional health care views.

**470E Chemical Risks & Society Benefits (4)**  
Prereq: sr. Focuses on the chemical industry to teach students to conduct functional risk assessment (i.e., evaluation of the benefits of complex technological materials given limited information or resources pertaining to the costs of such uses). Examines the role various constituencies can play in controlling such technologies and the products they produce including the expenses to society for these controls.

**472A Self, Aging, and Society (4)**  
Prereq: sr, one course in SOC, PSY, or HCCF. Interrelates knowledge of aging, modes of thought, and values to one another and to practical problems in life, society and culture, and world of work. Focuses primarily on biological, psychological, sociological, health care, and public policy aspects of gerontology. Designed to analyze in an interdisciplinary way basic assumptions of aging, process of theory construction, interrelationship of theory and research, procedures of empirical investigation, implications of older age structure for American society, and problems of aged in American society.

**472C Women and Leadership: Roles and Responsibilities (4)**  
Prereq: sr or perm; PSY 101 or SOC 101. Analysis of women in leadership roles in relation to historical, sociological, psychological, and economic perspectives. Strategies for developing leadership skills integrated throughout the course.

**472D Thanatology (4)**  
Prereq: sr or perm; PSY 101 or SOC 101. Synthesizes components inherent in current philosophical and religious views and beliefs, psychological and clinical dimensions, sociological factors, and ethical and moral issues of death in context of defining and coping with death.

**472K Clothing and Culture (4)**  
Prereq: sr, PSY 101 or SOC 101, one course in IA or AH. Knowledge and understanding are built through the interdisciplinary study of apparel, appearance, and cross-cultural influences in variations and functions of dress. Student exploration to focus on apparel and appearance norms as a cultural universal. Emphasis on research methods, resources, and activities relating to cultural/subcultural patterns.

**472L Food and Culture of the Mediterranean (4)**  
Prereq: sr, one course in ANTH, GEOG or SOC. Investigates the food and culture of the Mediterranean region from a cultural and geographic perspective.

**474A Brainscape: The Integrative Brain (4)**  
Prereq: sr or perm. Interdisciplinary course that guides students to explore functions of the human brain. Integrates information on such topics as movement, control, and awareness, sensory motor integration, language development and use, feelings, emotions, and drives, left brain, right brain, neural rhythmicity, levels of consciousness, and states of mind. Using this integrative information base, students explore and discuss mechanisms and evidences of such human attributes as thought and intellect.

learning and memory, play, reason, and decision making.

**475A Women and Leisure (4)**  
Prereq: sr, one Tier II social science. Designed to assist students in developing an awareness of the changing roles of women in society, particularly within the leisure components of women's lives. The course uses a social-psychological perspective, and encourages students to think critically about key issues surrounding women and leisure within a broad social context. This course is taught from a feminist perspective, focusing on how social change is necessary to allow women the opportunities that they deserve related to leisure and recreational pursuits.

**480D Emergence of a Science (4)**  
Prereq: sr, one course in science or philosophy. For both science and nonscience majors interested in historical and philosophical influences that led to present concept of chemistry as science. Chronological survey, largely nontechnical, of developments in chemistry from Thales to Russell. Not acceptable for 400-level requirement in B.S. chemistry degree program.

**480E War: The Human Response (4)**  
Prereq: sr, 12 hrs psychology or English. Human response to war considered in terms of myths of heroism and masculinity, nature of conflict, use and justification of aggression, perception of enemy, effects on both victims and victimizers, and irony of war. Human response examined both from subjective perspective of creators of literature of war and from objective perspective of psychologists who study individual and group behavior in times of conflict.

**480G Schooling and the State (4)**  
Prereq: sr, Tier II course in PHIL. Critical inquiry into how education, through citizenship preparation, has been seen by liberal, conservative, and socialist philosophers as resolving social crises. Particular attention to eras of extreme social crisis such as Great Depression and recent decades. Use of popular literature and source documents to relate educational prescriptions to current topics in education.

**480K Meaning in Music (4)**  
Prereq: sr. Survey of recent and historical attempts to explain relationships between musical stimuli and their musical or extramusical referents. Representative musical works examined in light of these theories.

**480M Gandhi and King: Nonviolence as Philosophy and Strategy (5)**  
Prereq: sr, one social science course. Provides a view of nonviolence as an end and personal style, although emphasis is placed on nonviolence as a means of responding to oppression. Offers a structural opportunity for students to integrate the theories and practice of nonviolence or other alternative paradigms, as related to real life situations, into their own life experiences. An interdisciplinary analysis of nonviolence will be employed.

**480P Ethical Issues in the Human Services (4)**  
Prereq: sr, Tier II course in humanities or social sciences. Examines variety of ethical issues facing human service workers (social workers, psychologists, counselors, etc.), including questions of truth-telling and confidentiality, paternalism and self-determination, distributive justice (allocation of resources), etc. Model for analyzing these issues is presented.

**480R War: Historical and Dramatic Perspectives (4)**  
Prereq: sr, Tier II completion. Through vehicle of history and drama, examines way in which America has been affected by warfare in 20th century. Dramas studied from historical and theatrical perspectives for insights they offer about history of American society during wartime.

**480T Science Policy in the U.S. (4)**  
Prereq: sr, POLS 101 or lab science course. Considers the intersection of science and politics. Investigates how government affects science,

how scientists become involved in political decisions, and how scientific information is used in public policy making. Examines the values and methods of both science and politics, traces the historical development of science policy, and analyzes contemporary issues where science and politics meet.

**480V Contemporary American Family (4)**  
Prereq: sr or perm. Study of American families based on psychological and literary analysis in professional literature and recent fiction and drama. Four questions designate the nature of the synthesis: (1) What is the relationship between the psychological study of the American family and its presentation in recent literature? (2) Do the portrayals of families in the literature reflect the family dynamics described by the psychologists? (3) What conclusions are best revealed by each approach? (4) What results from the synthesis of literary and psychological disciplines? Concerned with structures, functions, communication, roles, conflict, and intimacy in family settings, and also with the manner of their presentation in the literature.

**486 Business World of Asia (4)**  
Prereq: sr; course may not also count toward major requirement. Examines the current business environment of Asia from the perspective of contemporary history, culture, religion, political economy, geography, and current events. Emphasis is given to the awareness of global information resources for active business involvement in Asia.

**489Q Censorship and Performance (4)**  
Prereq: sr. Integrates the study of art, culture, politics, and performance in order to question the place of art in society and to see how artists interpret the world. Examines role of governments in art funding, views of obscenity and decency, free speech and tolerance.

**489R Birth and Childhood in American Society (4)**  
Prereq: sr. Examines the historical sociological and psychological views of children over time. Investigates the way that society views and has viewed children in the past in order to better evaluate our values and our society. Discussion of practical aspects of raising children in the new millennium.

## Travel and Tourism (TAT)

The following courses for the A.A.S. in travel and tourism are available only on the Southern campus:

**150 Travel Career Development Part I (3)**  
Introduction to comprehensive and critical information on travel products and destinations, important business issues, and the technical and personal skills needed to begin a career in the travel industry. Emphasis on the travel product and sales and marketing.

**151 Travel Career Development Part II (3)**  
Continuation of 150 with emphasis on agency operations and travel industry careers.

**160 Destination Training: North America (3)**  
Designed to acquaint students with in-depth information about the United States and Canada, including physical geography and political and cultural aspects of the region.

**161 Destination Training: Ohio (3)**  
Designed to acquaint students with in-depth information about the state of Ohio, including physical geography and political and cultural aspects of the region. Also includes in-depth analysis of the group travel business.

**162 Destination Training: Western Europe (3)**  
Designed to acquaint students with in-depth information about Western Europe, including physical geography and political and cultural aspects of the region.

**163 Destination Training: Asia (3)**

Designed to acquaint students with in-depth information about Asia, including physical geography and political and cultural aspects of the region.

**164 Destination Training: Mexico, Caribbean (3)**

Designed to acquaint students with in-depth information about Mexico and the Caribbean area, including physical geography and political and cultural aspects of the region.

**250 Travel Rules and Regulations (4)**

Introduction to the legal procedures, ethics, and relationships involving travel agencies and the airlines, tour operators, and travelers.

**270 Travel Computer Program Training (3)**

Introduction to computerized reservation system. Students will work with an actual airline computer program and will learn how to search for travel information, plan an itinerary, and write tickets.

**280 Seminar: Travel Planning and Counseling (1)**

Discussion and review of concepts relating to actual work experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 281.

**281 Practicum: Travel Planning and Counseling (2)**

Practical field experience in making travel arrangements and/or counseling travelers. Enrollment concurrent with 280.

**282 Seminar: Tour Planning and Direction (1)**

Discussion and review of concepts relating to actual work experience in planning and conducting a small group tour. Enrollment concurrent with 283.

**283 Practicum: Tour Planning and Direction (2)**

Practical field experience in planning and conducting a small group tour. Enrollment concurrent with 282.

**290 Independent Study (1-4)**

Prereq: written proposal and perm. Exploration of special topics in travel and tourism.

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**University College (UC)**
**105 College Information Seeking Skills (1)**

Prereq: fr. or soph. Finding, using, and evaluating information sources for undergraduate research. Includes narrowing a topic for an academic audience, concepts of indexing, and Boolean database searching. Hands-on lab approach with final bibliography tied to work in another class.

**106 Academic Computing Skills (1)**

Prereq: fr. Designed for students with limited exposure to computers. Introduces functions and programs commonly used at Ohio University. Primary emphasis is on using the Internet. May also include keyboarding, graphics, and database/spreadsheet management, as well as e-mail and word processing.

**110 Learning Strategies (3)**

Prereq: fr. Offers opportunity to assess present learning strategies and attitudes and adopt techniques that increase effectiveness in managing time, taking notes, remembering text material, preparing for exams, and gathering information. Emphasizes regular practice and use of strategies taught.

**110A Time Management and Test Taking Skills (1)**

Concentrates on managing time and preparing for and taking examinations. Duplicates components of UC 110.

**110B Notetaking from Lectures and Textbooks (1)**

Improves ability to select important information

in lectures, discussions, and textbooks, organize it in note form and review it. Emphasizes regular practice and use of organized notetaking systems. Duplicates components of UC 110.

**112 College Reading Skills (2)**

Prereq: fr. Focuses on improving comprehension, interpretation, and evaluation of reading materials that are typical of college courses. Moves from short passages to longer selections. Includes speed reading techniques and vocabulary building. Emphasizes practice and application of skills.

**112A Reading: Comprehending Textbooks (1)**

Focuses on comprehension skills needed for reading college-level materials and a learning system to increase ability to read texts more efficiently. UC 112A and 112B combined duplicate UC 112.

**112B Reading: Improving Speed and Vocabulary (1)**

Increases reading speed and the ability to appropriately adjust rate to different types of reading materials and tasks. In addition, teaches effective techniques for developing a college-level vocabulary. UC 112A and 112B combined duplicate UC 112.

**115 The University Experience (2)**

Prereq: first-quarter student. Designed to help ease the transition to the academic environment. Provides an overview of the skills and strategies that improve one's chances to be successful in college, including writing, motivation, and time management. Offers an introduction to the resources at Ohio University, including the University library and Career Services. Touches on finding a major and developing academic goals.

**116 The University Experience—Regional Campus (3)**

Prereq: first-quarter regional campus student. Helps the nonresidential regional campus student adapt to demands of university as academic environment, assessing interests, values, and abilities; exploring academic majors and their requirements; establishing educational and career goals; and developing skills necessary for college success.

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**University Professor (UP)**

Courses are offered each year by University Professors selected the preceding academic year. The courses cover topics chosen by the professors themselves, and may be offered only twice through the University Professor program. Often University Professor courses have joint first-year and upperclass sections. As the courses are special offerings, no permanent listing of descriptions and registration information is possible. For descriptions and registration information, visit University College at 140 Chubb Hall.

Generally, a University Professor course offered within the professor's area of training and expertise will count toward area requirements of different colleges, where applicable. Otherwise the credit fulfills elective credit hours. Be sure to check with your college office regarding application of University Professor course credit to college requirements.

**150 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr fr-level UP course.

**151 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr fr-level UP course.

**152 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr fr-level UP course.

**450 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Fall qtr upperclass-level UP course.

**451 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Winter qtr upperclass-level UP course.

**452 University Professor**

Title, prereq, and credit hrs published in *Schedule of Classes*. Spring qtr upperclass-level UP course.

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**Visual Communication (VICO)**

The curriculum in visual communication includes the courses listed below plus a variety of courses offered through the E. W. Scripps School of Journalism. A grade of C (2.0) or better in prerequisite classes is required before enrolling.

**120 Introduction to Visual Communication (4) (fall only)**

A survey of visual communication theory and technology of visual communication from ancient cave drawings to digital computer images.

**140 Studies in Visual Communication (4)**

This class will develop knowledge of visual communication students, create a framework for measuring objective qualities of visuals, recognize and respond to ethical questions faced by visual communicators, understand the history of techniques and technologies, relate current trends to past practices, and demonstrate application of critical analysis to visual communication applications.

**220 Topic Seminar (2-4)**

Prereq: 120. Examines the foundations of visual communication through the ages. Looks at the works of various photographic communicators and discusses how visual communication can inform, stimulate emotions, and influence viewers.

**221 Introduction to Visual Communication Skills (4)**

Prereq: 120. An introduction to visual communication skills through the color photographic medium. Student work will be reviewed and critiqued as to composition, technique, and the ability to communicate the information of the original subject to the viewer. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

**222 Introduction to Visual Communication Tools (4)**

Prereq: 221 and Photojournalism or Commercial Photography major. (cooperative buying fee) A foundation class in the basic photographic tools and techniques used for visual communication. The course will examine methods for effective communication using photography as a language. Students will be required to have a 35mm camera with manual exposure and focus capabilities.

**311 Informational Graphics (5)**

Prereq: 314 and JOUR 233. (cooperative buying fee) The visual presentation of quantitative and spatial information. Examines the planning, design, and computer preparation of charts, graphs, diagrams, and maps for use in newspapers and magazines.

**314 Introduction to Publication Design (5)**

Prereq: VisCom major and 120. (cooperative buying fee) An introduction to the production, design, and techniques of desktop publishing. Explores the many software packages for desktop publishing for microcomputers with emphasis on the presentation of visual material on the page.

**320 Topic Seminar (2-4)**

Prereq: 221. A flexible format for examining current and future topics in visual communication. Because of constantly changing trends in the profession, topics will vary as an area of need not covered in an existing class is identified. Topics will include the areas of rapid change such as technology, techniques, ethics, and aesthetics.



**321 Introduction to Photographic Illustration (4)**

Prereq: 222. (cooperative buying fee) Introduction of the basic tools of photographic illustration including techniques of the view camera, approaches to fashion, still life, and lighting.

**323 Publication Layout and Design (4)**

Prereq: 314 and 335 or JOUR 235 and 371. (cooperative buying fee) Examines historic and contemporary theories of layout and make-up design. Using computer systems that simulate pagination programs, students will investigate methods of combining type, graphics, and photographs on the printed page.

**324 Portraiture (4)**

Prereq: 390 or 321. This course provides students with an overview of the techniques used in photographic portraiture. Portraiture skills are essential to both photojournalists and commercial photographers. This class offers skills in natural and artificial lighting, working effectively with the subject/model, and the development of portraiture concepts. Students will be required to seek out portraiture subjects and produce photographs on location and in the studio.

**327 Photo Illustration: Fashion (4)**

Prereq: 321. (cooperative buying fee) The exploration and interpretation of the interaction of gesture, movement, and light in relation to capturing the essence of people and garments.

**328 Photo Illustration: Still Life (4)**

Prereq: 321, 371, and JOUR 133. (cooperative buying fee) An exploration of the principles of light and its effect on surfaces and shapes in studio lighting.

**335 Picture Editing (3)**

Prereq: 314 and JOUR 231. This class helps students understand and practice the skills necessary to function as picture editors and visual leaders in a journalistic environment. While some design skills are expected, the emphasis is on journalistic-based logic, articulation, and visual leadership in content origination.

**336 Advanced Picture Editing (3)**

Prereq: 335 or JOUR 235. This class is designed to facilitate a deeper understanding of the theory and reality of the photo editor in a journalistic environment, to practice the skills essential for the task, and exposure to the thought processes that thread through routine visual management decisions.

**361 Introduction to Web Design (4)**

Prereq: 314 and 371. (cooperative buying fee). Introduction to Web design will provide an overview of Internet design and user-interface and provide students with the analytical and technical skills, aesthetic and creativity needed to design for the World Wide Web.

**371 Digital Imaging (4)**

Prereq: 314. (cooperative buying fee) Advanced class introducing the computer as a tool for digital alteration of images to create composite and altered photographic images. Uses Macintosh computers and production quality scanners to alter and manipulate photographic images for creative and illustrative presentation.

**390 Introduction to Photojournalism (4)**

Prereq: 222. (cooperative buying fee) Introduction to the photographer techniques, tools, and content issues in visual communication for publications.

**391 Intermediate Photojournalism I (4)**

Prereq: 390. (cooperative buying fee) This class will examine single image photography as it is used in journalism and publications. The emphasis will be on using the photographic medium to communicate ideas, information, and emotions.

**392 Intermediate Photojournalism II (4)**

Prereq: 391 and JOUR 231. (cooperative buying fee) An examination of multiple sequential imaging as used in the photographer narrative form—picture story.

**393 Intermediate Photojournalism III (4)**

Prereq: 391. (cooperative buying fee) The use of color materials in reportage. The class will examine the various problems and explore solutions to using color materials in uncontrolled natural environments. Color balance, lighting, low light situations, reproduction, films, and processing will also be topics.

**394 Small Systems Lighting (2)**

Prereq: 390 or 321. This course will explore the history, aesthetics and techniques of using artificial strobe light as it applies to the still photographic image. Students will learn to operate small lighting systems by using strobes and flashes to practice with the latest equipment and experiment with lighting styles.

**412 Advanced Informational Graphics (5)**

Prereq: 311. (cooperative buying fee) Visual presentation of spatial information with emphasis on design and production techniques as they pertain to newspapers and magazines.

**421 Documentary/Essay (5)**

Prereq: 392. (cooperative buying fee) The use of still photography as a tool for social, anthropological, and journalistic investigation of contemporary issues. Using methods defined by traditional field researchers, the class will expand the use of the photograph for collection and interpretation of selected subjects.

**426 Advanced Publication Layout and Design (4)**

Prereq: 323. (cooperative buying fee) Advanced study in the use of computers as a tool for layout, design, and pagination for print media.

**427 Advanced Photographic Illustration: Business Practices (5)**

Prereq: 327 or 328. (cooperative buying fee) An investigation of the principles of studio management. Areas of study will include copyright, computer usage, self promotion, and financial management.

**428 Advanced Photographic Illustration: Studio Practices (5)**

Prereq: 427. (cooperative buying fee) Advanced studio methods in the design and execution of illustration images. Particular emphasis will be placed on the professional performance in producing images using advanced equipment and techniques.

**429 Advanced Photographic Illustration: Applications (5)**

Prereq: 428. (cooperative buying fee) A synthesis of business and photographic skills. Students will be given simulations based on a complete project concept that reflects the realities of working professionally.

**462 Advanced Web Design (4)**

Prereq: 311 and 361. (cooperative buying fee) This class will provide students with advanced skills which include the utilization of the human interface, design, Web delivery, information architecture, creation/production of multimedia-based visuals for Internet delivery.

**470 Graphics Systems Management (4)**

Prereq: 371. (cooperative buying fee) Planning, configuration and maintenance of computer and communication systems used in the graphic arts industry. Course will survey electronic production methods and examine technical and practical issues of graphics computers, peripherals, applications, and system hardware.

**473 Interactive Media (4)**

Prereq: 462 and TCOM 200C. (cooperative buying fee) Introduction to planning, media integration, and production techniques and tools of interactive multimedia. Through practical exercises this course will expose students to major component media, including computer text, graphics, photography, animation, speech, sound, and video. Technical and human interface issues are also covered.

**480 Digital Portfolio (0)**

Prereq: 371. (cooperative buying fee) Portfolio production for VisCom majors. This class provides

supervised access to the VisCom computer labs for the purpose of preparing portfolios for internships and job applications. Special fee required.

**481 Professional Development (4)**

Prereq: 371. (cooperative buying fee) Preparation for entry into the profession. Course will detail finishing and preparation of portfolio material, presentation skills, and knowledge of entry level professional employment possibilities.

**486 Advanced Photographic Reportage I (4)**

Prereq: 392. (cooperative buying fee) Advanced visual production work in newspaper photographic reportage, with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of color and/or black and white material. Finished projects will incorporate the use of computers and scanned images for final portfolio production.

**487 Advanced Photographic Reportage II (4)**

Prereq: 486. (cooperative buying fee) Advanced visual production work in magazine design, with particular emphasis on the picture story or photographic essay. This class will use a wide range of skills to produce a prototype magazine publication within a 10-week quarter. The class demands audience research, visual content focus, field research, photography, writing, design, and production. The class involves the use of computers and film scanners for production.

**488 Advanced Interactive Media (4)**

Prereq: 473. (cooperative buying fee) Advanced visual photographic production using a time-based media (slide shows or CD-ROM), with particular emphasis on the picture story or photographic essay. This documentary photojournalism class will use a wide range of photographic materials. Finished projects will incorporate the use of computers and scanned images into time-based visual presentations.

**491 Individual Study (1-5)**

Prereq: perm and written proposal. Max 12 hrs. Individual course of study agreed upon with the permission and guidance of a faculty member.

**492H Honors Project (1-6)**

Prereq: jr or sr; perm. Departmental honors project resulting in a creative piece of original work, the result of supervised research or a collection of artistic endeavors.

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**Virology**

See Biological Sciences: Microbiology.

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**Women's Studies (WS)**
**100 Introduction to Women's Studies (4) (2H)**

An interdisciplinary fundamentals course in which students explore a range of perspectives regarding social, political, and cultural constructions of gender, race, and sexuality.

**200 Issues in Feminism (4)**

Prereq: 100, ENG 151, 152, or 153. Critical analysis of 3-4 contemporary issues pertaining to women and gender, such as: work, health and reproduction, politics, education, violence, women in the arts, women in athletics, women in science, gender and aging.

**250 History of Feminist Thought (4)**

Prereq: 100, ENG 151, 152, or 153. This is an introduction to feminist theory. Course examines feminist theoretical concepts in Europe and the U.S. from their inception in early 20th century through the present. Includes discussions of women and the vote, sexuality, identity politics, and girl culture. Texts are theoretical, historical, and literary. Film and video clips may be used to enhance course lectures.

**360 The Women and Work Internship (4)**

Prereq: 100. Includes a two hour seminar and a six hour work experience. The seminar will focus on applying and evaluating ideas learning in Women's Studies courses to the "real world" experience of women's organization and feminist practice. The seminar and supervised job placement are designed to help students make a successful transition into the competitive work world by testing personal strengths, clarifying preferences, and sharing reflections on work experiences with the instructor and other students.

**400 The New Scholarship on Women: The Question of Difference (4)**

Prereq: 100, certificate student, sr. This course explores the latest scholarship on women and gender, drawing from various disciplines and literatures.

**490 Independent Reading (1-4)**

Prereq: perm. Directed individual reading or research.

**493 Special Topics (4)**

Prereq: 100; jr. Focuses on specific topics of interest in the field of women's studies.

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**World Religions**

See CLWR, after Classics in English.

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**Zoology**

See Biological Sciences.

# Departmental Faculty

## College of Arts and Sciences

### African American Studies

**Prof:** Vibert C. Cambridge (chair), Ph.D., Ohio U.; Francine C. Childs, Ed.D., East Texas State U.

**Asst. Prof:** Eric Grant, Ph.D., Yale U.; C. Michael Gray, J.D., U. of Wisconsin, Madison; Keith Harris, Ph.D., New York U.; Karen Kornweibel, Ph.D., U. of Texas at Austin.

**Inst:** D. Akil Houston, M.F.A., Ohio U.

### Biological Sciences

**Prof:** Ralph DiCaprio, Ph.D., U. of Alberta; Anne Loucks, Ph.D., U. of California, Santa Barbara; Ellengene Peterson, Ph.D., U. of California, Riverside; Robert Rakowski (chair), Ph.D., U. of Rochester School of Medicine and Dentistry; Jerome Rovner (emeritus, part-time), Ph.D., U. of Maryland; Michael Rowe, Ph.D., U. of California, Riverside; Gerald Svendsen, Ph.D., U. of Kansas; John Zook, Ph.D., Duke U.

**Assoc. Prof:** Mary Chamberlin, Ph.D., U. of British Columbia; Robert Colvin, Ph.D., Rutgers U.; Elizabeth Crockett (part-time), Ph.D., U. of Maine; William Holmes, Ph.D., U. of California, Los Angeles; Donald Holzschu, Ph.D., U. of California, Davis; Scott Hooper, Ph.D., Brandeis U.; Patricia Humphrey (part-time), Ph.D., Purdue U.; Kelly Johnson, Ph.D., Michigan State U.; Donald Miles, Ph.D., U. of Pennsylvania; Scott Moody, Ph.D., U. of Michigan; Molly Morris, Ph.D., Indiana U.; Stephen Reilly, Ph.D., Southern Illinois U.; Willem Roosenburg, Ph.D., U. of Pennsylvania; Matthew White, Ph.D., Virginia Tech.

**Asst. Prof:** Janet S. Duerr, Ph.D., Princeton U.; R. Patrick Hassett (part-time), Ph.D., U. of Washington; David Kurjiaka, Ph.D., Penn State U.; Daewoo Lee, Ph.D., U. of California, Riverside; Soichi Tanda, D.Sc., Hokkaido U.

**Inst:** Helaine Burstein, Ph.D., North Carolina State U.; Robert Carr, Ph.D., U. of Michigan; Joan Cunningham, Ph.D., Ohio U.; Laura DiCaprio, Ph.D., U. of Alberta; Steven Edinger, M.A., Northern Michigan U.; Karen Mammone, M.S., Frostburg State U.; Molly Gurien, M.S., Rutgers U.; Harry Schutte, D.O., Ohio U.; Christopher Schwirian, M.S., Ohio U.; M. Suzanne Simon Westendorf, Ph.D., Ohio U.

**Lect:** Mary Nossek, M.S., Ohio U.

### Chemistry and Biochemistry

**Prof:** Kenneth L. Brown (chair), Ph.D., U. of Pennsylvania; Howard D. Dewald, Ph.D., New Mexico State U.; Peter de Boer, Harrington, Ph.D., U. of North Carolina; David Hendrickson (emeritus, part-time), Ph.D., Iowa State U.; Tadeusz Malinski, Ph.D., U. of Poznan; Hugh H. Richardson, Ph.D., Oklahoma State U.; Paul Sullivan (emeritus, part-time), Ph.D., U. of Waterloo.

The following listings were submitted by the dean's office in each college in May 2004 and collated in the provost's office. The regional campus faculties are listed after the Athens campus faculty.

While care is taken to render the data in this list accurately, we regret that mistakes sometimes occur, given the volume of information contained within. Please notify the dean's office in your college if you find an error in your listing, so that the information submitted can be updated for the following year's edition of the catalog.

**Assoc. Prof:** Stephen C. Bergmeier, Ph.D., U. of Michigan; Jared Butcher, Jr., Ph.D., U. of Tennessee; Karen E. Eichstadt, Ph.D., U. of Kansas; Jennifer V. Hines, Ph.D., U. of Michigan; Marcia Kieliszewski, Ph.D., Michigan State U.; Mark C. McMills, Ph.D., Michigan State U.; Gary Pfeiffer, Ph.D., Carnegie Mellon U.; Martin T. Tuck, Ph.D., U. of Tennessee; Gene Westenbarger (emeritus, part-time), Ph.D., U. of California, Berkeley; Shiyong Wu, Ph.D., U. of Nebraska.

**Asst. Prof:** Liwei Chen, Ph.D., Harvard U.; Susan C. Evans, Ph.D., U. of Texas Graduate School of Biomedical Sciences; Klaus Himmeldirk, Ph.D., U. of Paderborn; Glen P. Jackson, Ph.D., West Virginia U.; Lauren E. McMills, Ph.D., Michigan State U.; Jeffrey J. Rack, Ph.D., Colorado State U.; P. Greg Van Patten, Ph.D., U. of South Carolina; David Young, Ph.D., U. of Edinburgh.

### Classics and World Religions

**Prof. and Charles J. Ping Professor of Humanities:** Thomas H. Carpenter, D. Phil., Oxford U.

**Prof Emeritus:** Gene Blocker (part-time), Ph.D., U. of California, Berkeley.

**Assoc. Prof:** James A. Andrews, Ph.D., U. of California, Berkeley; Robert Stephen (Steve) Hays, Ph.D., U. of Texas, Austin; William M. Owens (chair), Ph.D., Yale U.; Ruth Palmer, Ph.D., U. of Cincinnati; Elizabeth Collins, Ph.D., U. of California, Berkeley; George Weckman, Ph.D., U. of Chicago.

**Asst. Prof:** Peter J. Anderson (visiting), Ph.D., U. of Cincinnati; Lisa Carson, Ph.D., U. of North Carolina at Chapel Hill; Lynne C. Lancaster, D. Phil., Oxford U.; Jaclyn L. Maxwell, Ph.D., Princeton U.

### Economics

**Dist. Prof:** Richard Vedder, Ph.D., U. of Illinois.

**Prof:** Douglas Adie, Ph.D., U. of Chicago; Roy Boyd, Ph.D. (chair), Duke U.; Tony Caporale, Ph.D., George Mason U.; Khosrow Doroodian, Ph.D., U. of Oregon; Ismail Ghazalah, Ph.D., U. of California, Berkeley; Chulho Jung, Ph.D., U. of Michigan; Rosemary Rossiter, Ph.D., U. of Wisconsin, Milwaukee.

**Assoc. Prof:** Barbara Caporale, Ph.D., George Mason U.; Jan Palmer, Ph.D., Michigan State U.; Harold Winter, Ph.D., U. of Rochester.

**Asst. Prof:** Ariaster Chimeli, Ph.D., U. of Illinois; Kyongwook Choi, Ph.D., U. of Washington; Shamila Jayasuriya, Ph.D., Georgetown U.; Charlene Kalenkoski, Ph.D., The George Washington U.; Donald Lacombe, Ph.D., Florida State U.; Julie Paxton, Ph.D., Ohio State U.; William Shambora, Ph.D., U. of Kentucky.

### English

**Dist. Prof:** Robert DeMott, Ph.D., Kent State U.; John Matthews, M.A., Ohio State U.

**Hamilton Baker Hostetler Professor of Humanities:** Dean McWilliams, Ph.D., U. of Oregon.

**Trustee Prof:** Samuel Crowl (part-time), Ph.D., Indiana U.

**Stocker Professorship in Creative Writing:** Darrell Spencer, Ph.D., U. of Utah.

**Prof:** Linda Hunt Beckman (part-time), Ph.D., U. of California, Berkeley; Susan Crowl (part-time), Ph.D., Indiana U.; Jacqueline N. Glasgow, Ph.D., Kent State U.; Sherrie Gradin, Ph.D., U. of New Hampshire; Mark Halliday, Ph.D., Brandeis U.; Earl Knies (emeritus, part-time), Ph.D., U. of Illinois; David Lazar, Ph.D., U. of Houston; Barry Roth, Ph.D., Stanford U.; Duane Schneider (emeritus, part-time), Ph.D., U. of Colorado; Linda Zionkowski, Ph.D., Northwestern U.

**Assoc. Prof:** Marilyn Atlas, Ph.D., Michigan State U.; David Bergdahl (part-time), Ph.D., Syracuse U.; Josephine Bloomfield, Ph.D., U. of California, Davis; Joan Connor, M.F.A., Vermont College; Kenneth Daley, Ph.D., New York U.; Marsha Dutton; Ph.D., U. of Michigan; Andrew Escobedo, Ph.D., U. of California, Berkeley; Loreen Giese, Ph.D., Emory U.; George Hartley, Ph.D., U. of New Mexico; David Heaton (emeritus, part-time), Ph.D., U. of Michigan; Janis Holm, Ph.D., U. of Michigan; Mara Holt, Ph.D., U. of Texas; Katarzyna Marciniak, Ph.D., U. of Oregon; Joseph McLaughlin, Ph.D., Duke U.; Zanemvula Kizito Gatyeni Mda, Ph.D., U. of Capetown; Robert Miklitsch, Ph.D., SUNY, Buffalo; Jennie Nelson, Ph.D., Carnegie Mellon U.; Betty Pytlík, Ph.D., U. of Southern California; Mark Rollins, Ph.D., U. of Massachusetts; Albert Rouzie, Ph.D., U. of Texas; Thomas Scanlan, Ph.D., Duke U.

**Asst. Prof:** Crystal Anderson, Ph.D., College of William and Mary; Michael Brown (part-time), Ph.D., Ohio U.; Ph.D., Christine Freeman (part-time), Ph.D., Kent State U.; Miriam Hart (part-time), Ph.D., Ohio U.; Paul Christian Jones, Ph.D., U. of Tennessee at Knoxville; Evan Maina Mwangi, Ph.D., U. of Nairobi; Charles Naccarato (part-time), Ph.D., Ohio U.; Beth Quitslund, Ph.D., U. of California, Berkeley; Nicole Reynolds, Ph.D., U. of Georgia; Linda J. Rice, Ph.D., Kent State U.; Jill Rosser (part-time), Ph.D., U. of Pennsylvania; Carey Jean Snyder, Ph.D., State U. of New York; Lowell Ver Heul (part-time), Ph.D., Ohio U.; Jeremy Webster, Ph.D., U. of Tennessee; Johnnie A. Wilcox, Ph.D., U. of Virginia; Valerie Worthly (part-time), Ph.D., Ohio U.

**Instr:** David Bruce (part-time), M.A., Ohio U.; Jane Denbow (part-time), M.A., Marshall U.; Robert Kinsley (part-time), M.A., Ohio U.; Thomas Mantry (part-time), M.A., Ohio U.; David Sharpe (part-time), M.A., Brown U.

## Environmental and Plant Biology

**Prof:** Philip D. Cantino (associate chair), Ph.D., Harvard U.; Brian C. McCarthy, Ph.D., Rutgers U.; John P. Mitchell (emeritus, part-time), Ph.D., Edinburgh U.; Gar W. Rothwell (chair), Ph.D., U. of Alberta; Allan M. Showalter, Ph.D., Rutgers U.; Ivan K. Smith, Ph.D., U. of London.

**Assoc. Prof:** Harvey E. Ballard, Jr., Ph.D., U. of Wisconsin; Gene K. Mapes (adjunct), Ph.D., U. of Iowa; Arthur T. Trese, Ph.D., U. of Missouri; Morgan L. Vis, Ph.D., Memorial U. of Newfoundland.

**Asst. Prof:** Kim J. Brown, Ph.D., U. of Washington; Ahmed Faik, Ph.D., Université Joseph Fourier; Glenn R. Matlack, Ph.D., U. of Wales; Mary Louise Trivett (adjunct), Ph.D., Ohio U.; Sarah E. Wyatt, Ph.D., Purdue U.

## Geography

**Prof:** Nancy R. Bain, Ph.D., U. of Minnesota; James K. Lein, Ph.D., Kent State U.; Frank E. Bernard (emeritus, part-time), Ph.D., U. of Wisconsin; Dorothy Sack, Ph.D., U. of Utah; Bob J. Walter (emeritus, part-time), Ph.D., U. of Wisconsin; Lynden S. Williams (emeritus, part-time), Ph.D., U. of Kansas.

**Assoc. Prof:** Timothy G. Anderson, Ph.D., Texas A&M U.; Hubertus H.L. Bloemer, Ph.D., The Union Institute; Christopher G. Boone, Ph.D., U. of Toronto; Geoffrey L. Buckley, Ph.D., U. of Maryland; James M. Dyer, Ph.D., U. of Georgia; Brad D. Jokisch, Ph.D., Clark U.

**Asst. Prof:** Ronald H. Isaac (chair), Ph.D., Southern Illinois U.; Yeong-Hyun Kim, Ph.D., Syracuse U.; Jeffrey S. Ueland, Ph.D., Florida State U.; Risa Whitson, Ph.D., Pennsylvania State U.

## Geological Sciences

**Prof:** Royal Mapes, Ph.D., U. of Iowa (part-time); Damian Nance, Ph.D., U. of Cambridge, England; Thomas Worsley, Ph.D., U. of Illinois.

**Assoc. Prof:** Douglas Green, Ph.D., U. of Wisconsin; Gene Heien, (emeritus, part-time) M.A., Indiana U.; David Kidder (chair), Ph.D., U. of California; Elizabeth Gierlowski-Kordesch, Ph.D., Case Western Reserve U.; Dina Lopez, Ph.D., Louisiana State U.; Greg Nadon, Ph.D., U. of Toronto; Mary Stoertz, Ph.D., U. of Wisconsin.

**Asst. Prof:** Alycia Rode, Ph.D., U. of Kansas; Julie Libarkin, Ph.D., U. of Arizona; David Schneider, Ph.D., Lehigh U.; Gregory Scott Springer, Ph.D., Colorado State U.

## History

**Ohio Eminent Research Scholar:** Alfred Eckes, Ph.D., U. of Texas.

**Dist. Prof:** Charles Alexander (part-time), Ph.D., U. of Texas; Alonzo Hamby (part-time), Ph.D., U. of Missouri.

**Prof:** Marvin Fletcher, Ph.D., U. of Wisconsin; Donald Jordan (part-time), Ph.D., U. of Wisconsin; Kevin Mattson, Ph.D., U. of Rochester; Steven Miner (chair), Ph.D., Indiana U.; Compton Reeves (part-time), Ph.D., Emory U.; Bruce Steiner (part-time), Ph.D., U. of Virginia.

**Assoc. Prof:** Douglas Baxter, Ph.D., U. of Minnesota; Phillip Bebb (part-time), Ph.D., Ohio State U.; Phyllis Field, Ph.D., Cornell U.; William Frederick, Ph.D., U. of Hawaii; Norman J.W. Goda, Ph.D., U. of North Carolina; Patrick Griffin, Ph.D., Northwestern U.; Michael Grow, Ph.D., George Washington U.; Richard Harvey (part-time), Ph.D., U. of Missouri; Walter Hawthorne, Ph.D., Stanford U.; Katherine Jellison, Ph.D., U. of Iowa; Chester Pach, Ph.D., Northwestern U.; Sholeh Quinn, Ph.D., U. of Chicago.

**Asst. Prof:** Benita Blessing, Ph.D., U. of Wisconsin; P. John Brobst, Ph.D., U. of Texas; Michele Clouse, Ph.D., U. of California; Davis T. David Curp, Ph.D., U. of Washington; Mariana Dantas, Ph.D., Johns Hopkins U.; Ann Fidler, Ph.D., U. of California, Berkeley; Robert G. Ingram, Ph.D., U. of Virginia; Jaclyn Maxwell, Ph.D., Princeton U.; Paul Milazzo, Ph.D., U. of Virginia; Dan Shao, Ph.D., U. of California; Kevin Uhalde, Ph.D., Princeton U.

## Linguistics

**Prof:** Zinny Bond, Ph.D., Ohio State U.; Leslie Flemming (dean), Ph.D., U. of Wisconsin.

**Assoc. Prof:** James Coady (emeritus, part-time), Ph.D., Indiana U.; Beverly Flanigan, Ph.D., Indiana U.; Scott Jarvis (chair), Ph.D., Indiana U.; Richard McGinn (emeritus, part-time) Ph.D., U. of Hawaii; Hiroyuki Oshita, Ph.D., U. of Southern California; Marmo Soemarmo, Ph.D., U. of California, Los Angeles; Liang Tao, Ph.D., U. of Colorado; Christopher Thompson, Ph.D., U. of Illinois.

**Asst. Prof:** David Bell, Ph.D., Boston U.; Indiana U.; Colorado.

**Instr:** Joung Hee Krzic, M.A., Ohio U.; Suharni Soemarmo, M.A., U. of California, Los Angeles.

## Mathematics

**Dist. Prof:** Surender Jain, Ph.D., U. of Delhi; Alexander V. Arhangel'skii, Dr.Sc., Moscow State U.

**Prof:** Abdol-Reza Aftabizadeh, Ph.D., U. of Texas, Arlington; Sergiu Aizicovici, Ph.D., U. of Iasi; Jeffery Connor (Chair), Ph.D., Kent State U.; Archil Gulisashvili, Dr.Sc., Tbilisi State U.; Winfried Just, Ph.D., U. of Warsaw; Sergio López-Permouth, Ph.D., North Carolina State U.; Nicolai Pavel, Ph.D., U. of Iasi; Larry Snyder (emeritus, part-time), Ph.D., Purdue U.; Quoc Phong Vu, Dr.Sc., Kharkov State U.; Thomas Wolf, Ph.D., U. of Wisconsin.

**Assoc. Prof:** Dinh Huynh, Dr.Sc., Martin Luther Universität; David Keck, Ph.D., Ohio State U.; Paul S. Malcom (emeritus, part-time), Ph.D., Ohio State U.; M.S.K. Sastry, Ph.D., U. of Rochester; James Shirey (part-time), Ph.D., Purdue U.; Vladimir Uspenskiy, Ph.D., Moscow State U.; Vladimir Vinogradov, Ph.D., Moscow State U.; Todd Young, Ph.D., Georgia Institute of Technology.

**Asst. Prof:** Steven A. Chapin, Ph.D., Rutgers U.; Erick Todd Eisworth, Ph.D., U. of Michigan; William E. Kaufman, Ph.D., U. of Houston; Vardges Melkonian, Ph.D., Cornell U.; Martin J. Mohlenkamp, Ph.D., Yale U.; Laura J. Moss, Ph.D., U. of Texas; Maria L. Rizzo, Ph.D., Bowling Green State U.; Xiaoping Shen, Ph.D., U. of Wisconsin-Milwaukee.

**Inst:** Monica Hilverding, MA, Ohio State U.

## Modern Languages

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**Assoc. Prof:** David Burton, Ph.D., U. of Kentucky; Jose Delgado, Ph.D., U. of Virginia; Karen Evans-Romaine, Ph.D., U. of Michigan; Yolande Aline Helm, Ph.D., Pennsylvania State U.; Mary Jane Kelley, Ph.D., U. of Wisconsin; Emilia Marks, Ph.D., U. of Sevilla; Abelardo Moncayo-Andrade, Ph.D., U. of Maryland; Ruth Nybakken, Ph.D., Columbia U.; Betsy Partyka, Ph.D., Oxford U.; Herta Rodina, Ph.D., Harvard U.; Fred Toner (chair), Ph.D., U. of Kansas; Daniel Torres, Ph.D., U. of Cincinnati.

**Asst. Prof:** Maïke Ahrends, Ph.D., U. of Michigan; Vera Belousova, Ph.D., Moscow U.; Carole Cloutier, Ph.D., Georgetown U.; R. Christopher Coski, Ph.D., U. of Maryland; Dominique Duvert, Ph.D., U. of North Carolina; Signe Denbow, Ph.D., U. of Michigan; Nelson Hippolyte, Ph.D., U. of Pittsburgh; Arthur Hughes, Ph.D., U. of Arizona; Amado Lascar, Ph.D., U. of Oregon; Jeffrey Marks, Ph.D., U. of Sevilla; Molly Morrison, Ph.D., Indiana U.; Klaus Plonien, Ph.D., U. of Minnesota; Nikhil Sathe, Ph.D., Ohio State U.; Bärbel Such, Ph.D., U. of Cincinnati; Jörg Waltje, Ph.D., U. of Colorado.

**Instr:** Kathleen Brown, B.A., U. of Chicago; Brigitte Moretti-Coski, M.A., U. of Maryland; Anne Porter, M.A., Middlebury College; Barbara Reichenbach, M.A., Kent State U.; Chrysty Rusch, M.A., U. of Michigan; Annette Steigerwald, ABD, McGill U., M.Litt., Oxford; Kerry Vaughan, M.A., Ohio U.; Josefina Williams, M.A., Ohio U.; Karin Wright, M.A., Ohio U.

## Ohio Program of Intensive English

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## Philosophy

**Trustee Prof:** Charles J. Ping (president emeritus, part-time), Ph.D., Duke U.

**Prof:** John Bender, Ph.D., Harvard U.; Donald Borchert, Ph.D., Princeton Theological Seminary; Richard Butrick (emeritus, part-time), Ph.D., Columbia U.; Philip Ehrlich, Ph.D., U. of Illinois.

**Assoc. Prof:** Scott Carson, Ph.D., U. of North Carolina; James Petrik, Ph.D., Marquette U.; Arthur Zucker (chair), Ph.D., U. of Minnesota.

**Asst. Prof:** Alyssa Bernstein, Ph.D., Harvard U.; Mark LeBar, Ph.D., U. of Arizona; Tadeusz Zawidzki, Ph.D., Washington U.

## Physics and Astronomy

**Dist. Prof:** Steven M. Grimes, Ph.D., U. of Wisconsin.

**Prof:** David Drabold, Ph.D., Washington U.; Charlotte Elster, Dr. rer. nat., U. of Bonn; Kenneth Hicks, Ph.D., U. of Colorado; David Ingram, Ph.D., Salford U.; Martin Kordesch, Ph.D., Case Western Reserve U.; Roger Rollins (emeritus, part-time), Ph.D., Cornell U.; Sergio Ulloa, Ph.D., SUNY, Buffalo; Louis Wright (chair), Ph.D., Duke U.

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**Asst. Prof:** Michael Burton, Ph.D., SUNY, Albany; Praveen K. Chaudhry (visiting), Ph.D., U. of Pennsylvania; C. Ann Gordon, Ph.D., U. of Southern California; Michael Malley, Ph.D., U. of Wisconsin; Judith L. Millesen, Ph.D., SUNY, Albany; James Mosher, Ph.D., U. of Wisconsin; Jay Eungha Ryu, P.D.A., U. of Georgia; David M. Shafie, Ph.D., U. of Southern California; Sherrill L. Stroschein, Ph.D., Columbia U.; Kathleen S. Sullivan, Ph.D., U. of Texas, Austin; Barry L. Tadlock, Ph.D., U. of Kentucky.

**Instr:** Brian S. Davis (visiting), M.A., George Mason U.

## Psychology

**Trustee Prof:** James Bruning (emeritus, part-time), Ph.D., U. of Iowa.

**Prof:** Mark Alicke, Ph.D., U. of North Carolina; Margaret Appel, Ph.D., U. of Denver; Jack Arbuthnot (emeritus, part-time), Ph.D., Cornell U.; Francis Bellezza, Ph.D., U. of Minnesota; Christopher France, Ph.D., McGill U.; John Garske, Ph.D., U. of California, Berkeley; Kenneth Holroyd, Ph.D., U. of Miami; Harry Kotes (emeritus, part-time), Ph.D., Michigan State U.; G. Daniel Lassiter, Ph.D., U. of Virginia; John McNamara, Ph.D., U. of Georgia; Benjamin Ogles (chair), Ph.D., Brigham Young U.; Gary Schumacher (emeritus, part-time), Ph.D., Iowa State U.

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## Sociology and Anthropology

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**Assoc. Prof:** Eugene Ammarell, Ph.D., Yale U.; Diane M. Ciekawy, Ph.D., Columbia U.; Debra Henderson, Ph.D., Washington State U.; Amanda Konradi, Ph.D., U. of California, Santa Cruz; Girard Krebs (part-time), Ph.D., Cornell U.; Mary Beth Krouse, Ph.D., Ohio State U.; Bruce Kuhre (emeritus, part-time), Ph.D., Penn State U.; Jieli Li, Ph.D., U. of California, Riverside; Christine Mattley, Ph.D., Washington State U.; Steven Rubenstein, Ph.D., Columbia U.; Don Shamblyn (part-time), Ph.D., SUNY, Buffalo.

**Asst. Prof:** Michelle Brown, Ph.D., Indiana U.; V. Aileen Hall (part-time), Ph.D., Kent State U.; Bruce Hoffman, Ph.D., U. of Washington; Edward Morris, Ph.D., U. of Texas; Nancy Tatarek, Ph.D., Ohio State U.; Deborah Thorne, Ph.D., Washington State U.; Thomas Vander Ven, Ph.D., U. of Cincinnati.

**Visiting Prof:** Judith Grant, M.A., U. of Toronto; Jessica Maguire, Ph.D., Ohio State U.; Anthony Vigorito, Ph.D., Ohio State U..

## College of Business

### Accountancy

**James E. Daley Professor:** Ray G. Stephens (director), D.B.A., Harvard U.

**Prof:** Glenn E. Corlett (dean), J.D., Ohio State U.; Leon B. Hoshower, Ph.D., Michigan State U.; E. James Meddaugh (emeritus, part-time), Ph.D., Penn State U.; David P. Kirch, Ph.D., Penn State U.

**Assoc. Prof:** Yining Chen, Ph.D., U. of South Carolina; James S. Cox (emeritus, part-time), Ph.D., U. of Pittsburgh; David L. Senteney, Ph.D., U. of Illinois; Toby Stock, Ph.D., Indiana U.; Robert H.S. Sarikas, Ph.D., U. of Illinois at Urbana, Champaign.

**Asst. Prof:** Constance Esmond Kiger, Ph.D., Indiana U.; E. Ann Gabriel, Ph.D., Ohio State U.

**Inst:** Susanne C. Freeland, MT, Capital U.

### Finance

**Associate Dean – Operations and O'Brien Chair of Finance and Banking:** Nanda Rangan, Ph.D., Texas A&M U.

**Executive-in-Residence:** Neil Holden, D.B.A., Indiana U.; David Payne, M.B.A., Indiana U.; John E. Reynolds, III, M.B.A., Wharton School, U. of Pennsylvania.

**Prof:** Ganas K. Rakes (emeritus, part-time), D.B.A., Washington U.; Roger M. Shelor, D.B.A., U. of Kentucky

**Assoc. Prof:** Natalie M. Chieffe, D.B.A., Mississippi State U.; Dwight A. Pugh (emeritus, part-time), Ph.D., Ohio U.; Rajesh P. Narayanan, Ph.D., Florida State U.

**Asst. Prof:** John J. Puthenpurackal, Ph.D., Texas A&M U.; Andrew K. Prevost, Ph.D., Wayne State U.; Erik Devos, Ph.D., State Univ. of NY, Jayanta Sen, Ph.D., U. of Chicago

**Inst:** Scott B. Wright, M.B.A., Ohio U.; Katherine Keifer, M.S.A., U. of Virginia

### Management Information Systems

**Prof:** Ted R. Compton (emeritus, part-time), Ph.D., U. of Cincinnati; John Day (chair), Ph.D., Ohio U.; Raymond Frost, Ph.D., U. of Miami, Florida; Thomas G. Luce, Ph.D., Purdue U.; Han Lou, Ph.D., U. of Houston

**Assoc. Prof:** Wayne Huang, Ph.D., U. of Georgia; David Sutherland, (emeritus, part-time), Ph.D., U. of Kansas.

**Asst. Prof:** Sean McGann, ABD, Case Western Reserve.

**Inst:** Tod Brokaw, M.B.A.; Ohio U.; Jeffery Anderson, M.B.A.; Ohio U.; Vic Matta, M.S., Ohio U.

**Lect:** Corrine Brown (part-time), Ph.D., Ohio U.

## Management Systems

**O'Brien Prof:** John R. Schermerhorn, Jr., Ph.D., Northwestern U.; Debra Crown Core, Ph.D., U. of Colorado at Boulder.

### Lecturer and Executive-in-Residence:

Richard C. Scamehorn (emeritus, part-time), M.B.A., Indiana U.; Jeffrey Wilson (Executive-in-Residence).

**Prof:** Manjulika Koshal, Ph.D., Patna U.; Arthur Marinelli (emeritus, part-time) J.D., Ohio State U.; John Stinson (emeritus, part-time), Ph.D., Ohio State U.; Aaron Kelley, Ph.D., U. of N. Texas; Mary Tucker, Ph.D., U. of New Orleans; Faizal Huq, Ph.D., U. of Kentucky

**Assoc. Prof:** Garth Coombs, Ph.D., U. of Colorado; Kenneth Cutright, Ph.D., West Virginia U.; Patricia Gunn, J.D., Boston College; Mary Keifer, J.D., U. of Virginia; Clarence Martin, Ph.D., Carnegie Mellon U.; Richard Milter, Ph.D., SUNY, Albany; Bonnie Roach, Ph.D., Ohio State U.; Jessie Roberson, J.D., U. of Michigan; Hugh Sherman, (chair), Ph.D., Temple U.; Rebecca A. Thacker, Ph.D., Texas A&M U.; Edward B. Yost, Ph.D., Ohio State U.

**Asst. Prof:** Robert Holbrook, Jr., Ph.D., U. of Illinois; William Lamb, Ph.D., Virginia Polytechnic Institute and State U.; Kevin Kennedy Ph.D., Texas Tech U.; Amy Taylor-Bianco, Ph.D., Columbia U.; Patrick Kreiser, Ph.D., U. of Alabama.

**Lect:** Pamela A. Boger (part-time), Ph.D., Ohio U.; John Keifer, J.D., U. of Virginia; Christine A. Yost (part-time), Ph.D., Ohio U.; Theresa Moran, A.B.D., The Fletcher School of Law and Diplomacy, M.A.

**Inst:** Laura Myers (part-time), J.D., Ohio State U.

## Marketing

**O'Brien Chair of Marketing:** Ashok Gupta, Ph.D., Syracuse U.

**Executive-in-Residence:** Kenneth L. Hartung, M.B.A., Ohio U.; David Payne, M.B.A., Indiana U.

**Prof:** Kahandas Nandola, (emeritus part-time), Ph.D., U. of Pennsylvania.

**Assoc. Prof:** Catherine N. Axinn, Ph.D., Michigan State U.; Mary Elizabeth Blair, Ph.D., U. of South Carolina; Dawn Deeter-Schmeltz, Ph.D., U. of S. Florida; Timothy P. Hartman (emeritus, part-time), Ph.D., Ohio U.; Jane Z. Sojka, Ph.D., Washington State U.

**Asst. Prof:** Christopher Moberg, Ph.D., Cleveland State U.; Felicia N. Morgan, Ph.D., Arizona State U.

**Instr:** Greg Emery, Ph.D., Temple U.; John Kiger, Ph.D., Indiana U.; Larry S. Rogers, M.B.A., Ohio U.

## College of Communication

### Communication Systems

#### Management

**Prof:** Phyllis W. Bernt, Ph.D., U. of Nebraska.

**Assoc. Prof:** Philip Campbell, M.S., SUNY, Stony Brook; Hans Kruse, Ph.D., Vanderbilt U.; Trevor Roycroft, Ph.D., U. of California, Davis; Andrew Snow (director), Ph.D., U. of Pittsburgh

**Asst. Prof:** Anthony G. Melo, B.S., Ohio U.; John Hoag, Ph.D., Ohio State U.; Herbert Thompson, Ph.D., U. of Georgia

### Communication Studies

**Prof:** Roger Aden, Ph.D., U. of Nebraska; Tom Daniels, Ph.D., Ohio U.; James W. Dearing, Ph.D., U. of Southern California; David Descutner, Ph.D., U. of Illinois; Elizabeth Graham, Ph.D., Kent State U.; Claudia Hale, Ph.D., U. of Illinois; Judith Yaross Lee, Ph.D., U. of Chicago; Raymie E. McKerrow, Ph.D., U. of Iowa; William K. Rawlins, Ph.D., Temple U.; Gregory Shepherd (director), Ph.D., U. of Illinois; Arvind Singhal, Ph.D., U. of Southern California.

**Assoc. Prof:** Christina Beck, Ph.D., U. of Oklahoma; Ted Foster (emeritus, part-time), Ph.D., Ohio U.; Anita James, Ph.D., U. of Southern California; Jerry L. Miller, Ph.D., U. of Oklahoma; Daniel P. Modaff, Ph.D., U. of Texas; Nagesh Rao, Ph.D., Michigan State U.; John Smith, Ph.D., Wayne State U.

**Asst. Prof:** Benjamin R. Bates, Ph.D., U. of Georgia; Derika Chawla, Ph.D., Purdue U.; Lynn Harter, Ph.D., U. of Nebraska; R. Sam Larson, Ph.D., Michigan State U.; Caryn E. Medved, Ph.D., U. of Kansas; Jeff St. John, Ph.D., U. of Washington; Scott Titsworth, Ph.D., U. of Nebraska.

### Journalism

**Knight Editing Professional:** Deborah Gump, Ph.D., U. of North Carolina.

**Scripps Howard Visiting Professional:** John Brady, M.A., Bradley U.

**Prof:** Joe Bernt, Ph.D., U. of Nebraska; Anne Cooper-Chen, Ph.D., U. of North Carolina; Dru Riley Everts, Ph.D., Ohio U.; Marilyn Greenwald, Ph.D., Ohio State U.; Melvin Helitzer, B.A., Syracuse U.; Ralph Izard (emeritus, part-time), Ph.D., U. of Illinois; Daniel Riffe, Ph.D., U. of Tennessee; Robert Stewart, Ph.D., U. of Washington; Patrick Washburn, Ph.D., Indiana U.; Patricia Westfall, M.S., Columbia U.

**Assoc. Prof:** Bojinka Bishop, M.S., U. of Michigan; Edith Dashiell, Ph.D., Indiana U.; Bernhard Debatin, Ph.D., Technical U., Berlin; Sandra Haggerty, B.S., Utah State U.; Thomas Hodges, M.S., South Dakota State U.; Thomas Hodson (director), J.D., Ohio State U.; Thomas Peters, M.B.A., Ohio U.; Ron Pittman, M.S., Marshall U.; Cassandra Reese, Ph.D., Ohio U.

**Asst. Prof:** Hong Cheng, Ph.D., Pennsylvania State U.; Ovril Patricia Cambridge, Ph.D., Ohio U.; Diana Knott, Ph.D., U. of North Carolina; Mark Leff, M.A., Ohio State U.; Bill Reader, M.A., Pennsylvania State U.; Mary Rogus, M.B.A., U. of Kentucky.

**Instr:** Kathy Pittman (part-time), M.Ed., Ohio U.

**Asst. Instr:** Douglas E. Nohl (part-time), B.S.C., Ohio U.

### Telecommunications

**Prof:** Don Flournoy, Ph.D., U. of Texas; W. Stephen Howard, Ph.D., Michigan State U.; Kathy A. Krendl (Dean), Ph.D., U. of Michigan; Drew McDaniel, Ph.D., Ohio U.; David Mould, Ph.D., Ohio U.; Josep Rota, Ph.D., Michigan State U.; Joseph Slade Ph.D., New York U.

**Assoc. Prof:** Duncan Brown, Ph.D., U. of Illinois; Vibert Cambridge, Ph.D., Ohio U.; Charles Clift III (emeritus, part-time), Ph.D., Indiana U.; Roger Cooper, Ph.D., Indiana U.; Arthur C. Cromwell, Ph.D., Ohio U.; Roger Good, M.A., Ohio U.; George Korn, Ph.D., Southern Illinois U.; Jenny Nelson, Ph.D., Southern Illinois U.; Norma Pecora, Ph.D., U. of Illinois; Jeff Reeder, M.A., Ohio U.; Karen Riggs (director), Ph.D., Indiana U.; Karin Sandell, Ph.D., U. of Iowa.

**Asst. Prof:** Mia Consalvo, Ph.D., U. of Iowa; Joseph Richie, M.M.A., U. of South Carolina; Frederick Lewis, MFA, Brown U.; Greg Newton, Ph.D., Indiana U.; Beth Novak, M.F.A., Ohio State U.

**Instr:** Sheila Wurtsbaugh (part-time), M.A., Ohio U.

### Visual Communication

**Prof:** Terrill Eiler (director), M.F.A., Ohio U.; Larry Nighswander, B.B.A., Bowling Green State U.; Marcia Nighswander, B.S.J., Bowling Green State U.

**Assoc. Prof:** Gary Kirksey, M.A., Ohio U.; William R. Schneider, M.F.A., Ohio U.; Michael Williams, M.S.J., U. of Kansas.

**Asst. Prof:** Stanley Alost, M.A., Ohio U.; Samuel Gilton, M.F.A., Ohio U.; Larry Hamel-Lambert, M.A., Ohio U.; Terence Oliver, M.A., Ohio U.

## College of Education

### Counseling and Higher Education

**Prof:** Thomas Davis, Ph.D., Ohio State U.; Glenn Doston, Ph.D., Northwestern U.; Fred Dressel (emeritus, part-time), Ed.D., Indiana U.; Thomas Sweeney (emeritus, part-time), Ph.D., Ohio State U.; Robert Young, Ph.D., U. of Illinois.

**Assoc. Prof:** Patricia Beamish, Ed.D., West Virginia U.; Gary Moden (part-time), Ph.D., U. of Missouri; Jerry Olsheski, Ph.D., Ohio State U.

**Asst. Prof:** Valerie Martin Conley, Ph.D., Virginia Polytechnic Institute; Marc Cutright, Ed.D., U. of Tennessee; Tracey Leinbaugh, Ph.D., U. of Idaho; Dana Heller Levitt, Ph.D., U. of Virginia; Dafina Lazarus Stewart, Ph.D., Ohio State U.

### Educational Studies

**Prof:** Robert Barcikowski (emeritus, part-time), Ph.D., SUNY, Buffalo; James Heap (dean), Ph.D., U. of British Columbia; Aimee Howley, Ed.D., West Virginia U.; George Johanson, Ed.D., U. of Massachusetts; Sandra Turner, Ph.D., U. of South Florida.

**Assoc. Prof:** Catherine Glascock, Ph.D., Louisiana State U.; Jaylynn Hutchinson, Ph.D., U. of Washington; Najee Muhammad, Ph.D., U. of Cincinnati; Adah Ward Randolph, Ph.D., Ohio State U.; Rosalie Romano, Ph.D., U. of Washington; Arlie Woodrum, Ed.D., Harvard U.

**Asst. Prof:** Gordon Brooks, Ph.D., Ohio U.; Teresa Franklin, Ph.D., Ohio U.; David Moore, Ph.D., U. of Virginia.

### Teacher Education

**Prof:** Larry Jageman (emeritus, part-time), Ed.D., U. of Northern Colorado; Dorothy Leal, Ph.D., U. of Kentucky; Ralph Martin, Ph.D., U. of Toledo; Joan McMath, Ph.D., U. of Akron; Ragy Mitas (emeritus, part-time), Ph.D., Ohio State U.; Joan Safran, Ph.D., U. of Virginia; Stephen Safran, Ph.D., U. of Virginia; James Schultz (Morton Prof.), Ph.D., Ohio State U.; Scott Sparks, Ph.D., U. of Florida; Ph.D.; Ginger Weade, Ph.D., Ohio State U.

**Assoc. Prof:** Bonnie Beach, Ph.D., Ohio U.; JoAnn Dugan, Ph.D., U. of Pittsburgh; Dianne Gut, Ph.D., U. of North Carolina; Sondra Rebottini (emeritus, part-time), Ed.D., West Virginia U.; Barbara Reeves, Ed.D., U. of Kentucky; Marta Roth, Ed.D., West Virginia U.; Colleen Sexton, Ph.D., Ohio U.; William Smith, Ed.D., Indiana U.; James Yanok, Ph.D., Kent State U.

**Asst. Prof:** Susan Avery-Mitchell, Ed.D., U. of Alabama; Frans Doppen, Ph.D., U. of Florida; Eun-Young Jung, Ph.D., U. of Illinois; Jennifer Malmberg, Ph.D., Ohio U.; Mary Markowitz, Ph.D., U. of Kansas; Gayle Millsaps, M.A., Ohio State U.

**Instr:** Perrianne Bates, M.Ed., Ohio U.; Marcy Kennedy, M.Ed., Ohio U.; Karen Oswald, M.Ed., Ohio U.; Joette Weber, M.Ed., Ohio U.

## Russ College of Engineering and Technology

### Aviation

**Assoc. Prof:** Juan Merkt, (chair) Ph.D., Harvard U.

**Asst. Prof:** Ronald J. Faliszek, B.B.A., Ohio U.; Deak M. Arch, M.A., Delta State U.; Mark A. Sherman, E.D.S., Central Missouri State U.

### Chemical Engineering

**Prof:** Srdjan Nesic, Ph.D., U. of Saskatchewan, Canada; Michael Prudich (chair), Ph.D., West Virginia U.

**Assoc. Prof:** Wen-Jia Russell Chen, Ph.D., Syracuse U.; Douglas Goetz, Ph.D., Cornell U.; Tingyue Gu, Ph.D., Purdue U.; Daniel Gulino, Ph.D., U. of Illinois; Darin Ridgway, Ph.D., Florida State U.; Kendree Sampson, Ph.D., Purdue U.; Valerie Young, Ph.D., Virginia Polytechnic Institute and State U.

**Asst. Prof:** Gerardine Botte, Ph.D., U. of South Carolina.

### Civil Engineering

**Prof:** Tiao Chang, Ph.D., Purdue U.; Glenn Hazen (emeritus, part-time), Ph.D., P.E., Penn State U.; Gayle F. Mitchell (Neil D. Thomas Prof. and chair), Ph.D., P.E., Mississippi State U.; Shad M. Sargand (Russ Prof.), Ph.D., Virginia Polytechnic Institute and State U.

**Assoc. Prof:** Lloyd A. Herman, Ph.D., P.E., Vanderbilt U.; Teruhisa Masada, Ph.D., P.E., Ohio U.; Eric P. Steinberg, Ph.D., P.E., Michigan Tech. U.; Ben J. Stuart, Ph.D., P.E., Rutgers U.

**Asst. Prof:** Lindsey Sebastian Bryson, Ph.D., P.E., Northwestern U.; Daniel Castro-Lacouture, Ph.D., Purdue U.; Sang-Soo Kim, Ph.D., Iowa State U.; R. Guy Riefler, Ph.D., P.E., U. of Connecticut; James M. Thompson, Ph.D., Lehigh U.

### Electrical Engineering and Computer Science

**Prof:** Michael Braasch (Thomas Prof.), Ph.D., Ohio U.; Hollis Chen (emeritus, part-time), Ph.D., Syracuse U.; Jeffrey Dill, Ph.D., U. of Southern California; Joseph Essman (emeritus, part-time), Ph.D., Purdue U.; Herman Hill, Ph.D., West Virginia U.; R. Dennis Irwin (Dean & Moss Prof of Engr. Ed.), Ph.D., Mississippi State U.; Robert Judd (Cooper Industries Prof.), Ph.D., Oakland U.; Henryk Lozykowski, Ph.D., N. Copernicus U.; Brian Manhire, Ph.D., Ohio State U.; Jerrel Mitchell (Senior Associate Dean for Res. & Grad. Studies), Ph.D., Mississippi State U.; Roger Radcliff, Ph.D., West Virginia U.; Janusz Starzyk, Ph.D., Technical U., Warsaw; Frank van Graas (Russ Prof.), Ph.D., Ohio U.; Lonnie Welch (Stuckey Prof.), Ph.D., Ohio State U.; J. Jim Zhu, Ph.D., U. of Alabama.

**Assoc. Prof:** Chris Bartone, Ph.D., Ohio U.; Mehmet Celenk, Ph.D., Stevens Institute of Technology; David Chelberg, Ph.D., Stanford U.; Robert Curtis, Ph.D., New York U.; Jeffrey Giesey, Ph.D., U. of Michigan; John Gillam, Ph.D., Michigan State U.; David Juedes, Ph.D., Iowa State U.; Douglas Lawrence, Ph.D., Johns Hopkins U.; Shawn Ostermann, Ph.D., Purdue U.; Constantinos Vassiliadis, Ph.D., Mississippi State U.

**Asst. Prof:** Carl Bruggeman, Ph.D., Indiana U.; Frank Drews, Ph.D., Technical U. of Clausthal, Germany; Wojciech Jadwisieniczak (Visiting Assistant Professor), Ph.D., Nicolas Copernicum U., Torun, Poland; Savas Kaya, Ph.D., U. of London, Imperial College; Chang Liu, Ph.D., U. of California, Irvine; Jundong Liu, Ph.D., U. of Florida, Gainesville; Cynthia Marling, Ph.D., Case Western Reserve U.; David Matolak, Ph.D., U. of Virginia; Maarten Uijt de Haag, Ph.D., Ohio U.; Wenle Zhang, Ph.D., Ohio U.

**Lect:** Margaret Thomas, M.A., Ohio U.

**Instr:** William Austad, M.S., Ohio U.; Andrea Demott, M.A., Ohio U.; John Dolan, M.S., Ohio U.; Mal Gunasekera, M.S., Ohio U.; Victor Hanna, M.S., Youngstown State U.; Ralph Kelsey, Ph.D., Ohio U.; Curtis Sherman, M.S., Cleveland State U.

## Industrial and Manufacturing

### Systems Engineering

**Prof:** Charles M. Parks (chair), Ph.D., Oklahoma State U.; Helmut Zwahlen (emeritus, part-time, Russ Prof.), Ph.D., Ohio State U.; Gursel A. Suer, Ph.D., Wichita State U.

**Assoc. Prof:** David A. Koonce, Ph.D., Louisiana State U.; Dale T. Masel, Ph.D., Penn State U.; Dusan Sormaz, Ph.D., U. of Southern California; Gary Weckman, Ph.D., U. of Cincinnati.

**Asst. Prof:** Trevor S. Hale, Ph.D., Texas A&M U.

## Industrial Technology

**Prof:** James F. Fales (Loehr Prof. and chair), Ed.D., Texas A&M; William W. Reeves (emeritus, part-time), Ed.D., U. of Kentucky; Timothy J. Sexton, Ph.D., Ohio U.

**Assoc. Prof:** John A. Deno, Ph.D., Ohio State U.; Peter W. Klein, Ph.D., Ohio U.; Patrick J. McCuiston, Ph.D., Texas A&M U.; Thomas E. Scott (Kraft Family Scholar), Ph.D., Ohio U.

**Asst. Prof:** Todd D. Myers, M.B.A., Ohio U.; Mark R. Rowe, M.S., Ohio U.

## Mechanical Engineering

**Prof:** Khairul Alam (Moss Prof.), Ph.D., California Institute of Technology; Gary Graham, Ph.D., Texas Tech U.; Jay Gunasekera (Moss Prof. and chair), Ph.D., U. of London; Hajrudin Pasic, Ph.D., Stanford U.; T. Richard Robe (dean emeritus, part-time), Ph.D., Stanford U.

**Assoc. Prof:** David Bayless, Ph.D., U. of Illinois; Andrew Foley, Ph.D., Cranfield U.; Kenneth Halliday, Ph.D., U. of Massachusetts; Gregory G. Kremer, Ph.D., U. of Cincinnati; Bhavin Mehta, Ph.D., Ohio U.; Israel Urieli, Ph.D., U. of Witwatersrand; Robert L. Williams II, Ph.D., Virginia Polytechnic Institute and State U.

**Asst. Prof:** Paul Bosscher, Ph.D., Georgia Institute of Technology; Frank F. Kraft, Ph.D., Rensselaer Polytechnic Institute.

## College of Fine Arts

### Art

**Prof:** Don Adleta, M.F.A., School of Design, Switzerland; Joseph Bova (part-time), M.A., U. of New Mexico; Carolyn Cardenas, M.F.A., Drake U.; Abner Jonas (emeritus, part-time), M.F.A., U. of Iowa; Ronald Kroutel (emeritus, part-time), M.F.A., U. of Michigan; Mary Manusos, M.F.A., U. of Wisconsin; Charles McWeeny, M.F.A., Oklahoma U.; Karen Nulf (emerita, part-time), M.A., Michigan State U.; Robert Peppers, M.F.A., Ohio U.; Judith Perani (part-time), Ph.D., Indiana U.; Gary Pettigrew (emeritus, part-time), M.F.A., Ohio U.; Brad Schwieger, M.F.A., Utah State U.; Arthur Werger, M.F.A., U. of Wisconsin; Daniel Williams (emeritus, part-time), M.A., U. of Oregon

**Assoc. Prof:** Marilyn Bradshaw, Ph.D., Indiana U.; Aethelred Eldridge, M.S.D., U. of Michigan; Michael Harper (part-time), Ph.D., U. of North Carolina; Christine Herndl, M.F.A., Cornell U.; Joseph Lamb, Ph.D., U. of California; Santa Barbara, Robert Lazuka (director), M.F.A., Arizona State U.; Duane McDiarmid, M.F.A., Florida State U.; Thomas Patin, Ph.D., U. of Washington; Marilyn Proppelmeyer, M.F.A., SUNY, Buffalo; Francisco Saito, M.F.A., California College of Arts & Crafts; Kiyu Shen, M.A., Ohio State U.

**Asst. Prof:** Ronald Aman, M.S., Pennsylvania State U.; Stacy Asher, M.F.A., California College of Arts & Crafts; Jodi Boatman, M.F.A., Cranbrook Academy of Art; Anne Burkhardt, Ph.D., Ohio State U.; Alison Colman, Ph.D., Ohio State U.; Patricia Cue, M.F.A., Basel School of Design; Jimmy Fike, Jr., M.F.A., Cranbrook Academy of Art; Karla Hackenmiller, M.F.A., U. of South Dakota; Alexandra Hibbitt, M.F.A., Alfred U.; John Sabraw, M.F.A., Northwestern U.

## Interdisciplinary Arts

**Prof:** William F. Condee (director), Ph.D., Columbia U.; Jessica Haigney (emerita, part-time), Ph.D., Ohio U.; Dora J. Wilson, Ph.D., U. of Southern California.

**Asst. Prof:** Charles Buchanan, Ph.D., U. of California at Santa Barbara; Virginia Gorlinski, Ph.D., U. of Wisconsin-Madison; Keith Harris, Ph.D., New York U.; Vladimir Marchenkov, Ph.D., Ohio State U.

## Dance

**Prof:** Michele Geller, M.F.A., New York U. School of the Arts; Madeleine Scott (director), M.A., U. of California, Los Angeles; Marina Walchi, M.F.A., Ohio U.

**Assoc. Prof:** Travis Gatling, M.F.A., Ohio State U.; Lisa F. Moulton, M.F.A., U. of Utah.

**Asst. Prof:** Zelma Badu-Young, Ph.D., McGill U.; Maura Keefe, Ph.D., U. of California.

## Film

**Emerit Scholar in Film:** Rajko Grlic, M.F.A., Famu Prague.

**Prof:** David O. Thomas, Ph.D., Southern Illinois U.

**Asst. Prof:** Jennifer Granville, M.A., Leeds Metropolitan U.; D. Thomas Hayes, B.G.S., Ohio U.; Adam Knee, Ph.D., New York U.; Steven Ross, B.A., Wesleyan U.

## Music

**Prof:** Ernest Bastin (emeritus, part-time), M.M., U. of Illinois; Gail Berenson, M.M., Northwestern U.; John Climer, D.M.A., U. of Missouri; Kansas City; Donna Conaty, M.M., Yale School of Music; Peter Jarjisan, D.M.A., U. of Wisconsin; Meryl Mantione (director), D.M.A., U. of Colorado; Mark Phillips, D.M., Indiana U.; Allyn Reilly, Ph.D., Northwestern U.; Guy Remonko (emeritus, part-time), M.M., West Virginia U.; Harold Robison (emeritus, part-time), D.M.A., U. of Michigan; John Schlabach, M.M., Northwestern U.; Richard Syracuse, M.S., Juilliard School of Music; Raymond Tymas-Jones (dean), Ph.D., Washington U. at St. Louis; Richard Wetzell, Ph.D., U. of Pittsburgh.

**Assoc. Prof:** Paul Barte, D.M.A., U. of Rochester; Roger Braun, M.M. Eastman School of Music; Dorothy Bryant, Ph.D., U. of Oklahoma; Milton Butler, Ph.D., U. of Arizona; Andre Gribou, M.M., Juilliard School of Music; Christopher Hayes, Ph.D., U. of Missouri-Columbia; Sylvia Reynolds Henry, Ph.D., U. of Kansas; Matthew James, M.M., U. of North Texas; Michael Kellogg (emeritus, part-time), M.M., Loyola U.; Patricia Pease, D.M.A., Florida State U.; Rebecca Rischin, D.M. Florida State U.; Alison Sincoff, M.M., U. of Nebraska; C. Scott Smith, M.M., Michigan State U.; Anita Louise Steele, M.M.E., U. of Kansas; James Stewart (emeritus, part-time), Ph.D., Ohio State U.; Margene Stewart (emerita, part-time), M.F.A., Ohio U.; Richard Suk, Ed.D., U. of Illinois at Urbana-Champaign; Sylvester Young, Ph.D., U. of Missouri

**Asst. Prof:** Marjorie Bagley, M.M., Manhattan School of Music; Michael Carrera, D.M.A., Manhattan School of Music; Raymond Feener, M.M., Ohio U.; Andrew George, D.M.A., U. of Michigan; Kamil O'Donnell, M.A., Texas Woman's U.; Jason Smith, D.M.A., U. of Cincinnati; Eric Sternberg, M.M., U. of Cincinnati College Conservatory of Music

## Theater

**Prof:** Ursula Belden, M.F.A., Yale U.; Paul Castagno, Ph.D., Ohio State U.; Dennis Dalen (emeritus, part-time), M.A., U. of Kansas; Charles Smith, M.F.A., U. of Iowa; Robert L. Winters (emeritus, part-time), M.A., Michigan State U.

**Assoc. Prof:** Jorge L. Cacheiro, M.F.A., Yale U.; Holly Cole, M.F.A., Carnegie Mellon U.; Daniel N. Denhart, M.F.A., Ohio U.; William Fisher, B.A., Indiana U.; Lonny S. Frazee (part-time), M.A., Penn State U.; Esaiba Irobi, Ph.D., U. of Leeds; Laura Parrotti, M.A., SUNY, Binghamton; Robert St. Lawrence (director), M.A., U. of Pittsburgh; Jack Young, M.F.A., U. of Washington.

**Asst. Prof:** Shelley Delaney, M.F.A., Rutgers U.; Timothy Johnson, M.F.A., U. of Washington; Kjersten Lester-Moratzka, M.F.A., North Carolina School of the Arts; Gregory Lush, M.F.A., U. of Mississippi.

## College of Health and Human Services

### Health Sciences

**Prof:** Matthew Adeyanju, Ph.D., U. of Illinois; Gari Lesnoff-Caravaglia, Ph.D., U. of California, Los Angeles.

**Assoc. Prof:** Douglas Bolon, Ph.D., Virginia Polytechnic Institute and State U.; Kevin Crist, Ph.D., U. of Iowa; Richard Hedges, Ph.D., U. of Kentucky; Michele Morrone, Ph.D., Ohio State U.

**Asst. Prof:** Ann Rathbun, Ph.D., Texas Woman's University; Donald Reed, Ph.D., Georgia State U.; Timothy Ryan, M.S., Ph.D., U. of Texas; Patricia Baasel Tillis (emerita, part-time), Ph.D., Ohio U.

**Instr:** Juli Miller (part-time) M.H.S.A., Ohio U.

## Hearing, Speech and Language Sciences

**Prof:** Donald Fucci, Ph.D., (emeritus, part-time) Purdue U.; Norman Garber (emeritus, part-time), Ph.D., U. of Missouri; James W. Montgomery, Ph.D., Wichita State U.; Gary Neiman (dean), Ph.D., U. of Illinois.

**Assoc. Prof:** Brooke Hallowell (director), Ph.D., U. of Iowa; Ronald Isale (emeritus, part-time), M.A., Kent State U.

**Asst. Prof:** Emily Buckberry (emerita, part-time), M.A., Ohio U.; C. Richard Dean, Ph.D., (emeritus, part-time) Stanford U.; Jeffrey J. DiGiovanni, Ph.D., U. of Minnesota; Youngsun Kim, Ph.D., U. of Tennessee; Chao-Yang Lee, Ph.D., Brown U.; Sally A. Marinellie, Ph.D., U. of Illinois; John McCarthy, M.S., Penn State U.; Dennis T. Ries, Ph.D., U. of Minnesota; Ayaskanta Rout, M.S., All India Institute of Speech & Hearing, Mysore, India; Li Xu, M.D., Capital University of Medical Sciences, Beijing, China, Ph.D., U. of Florida College of Medicine.

**Instr:** Donna Bidlack, M.A., Bowling Green State U.; Kristi Kinnard, M.A., Ohio U.; Rebecca Meier, M.A., Ohio U.; Marianne Malawista, Ph.D., Ohio U.; Davida Parsons, M.A., Ohio U.; Pam Reese, M.A., Indiana U.; Bloomington; Sarah Taylor, M.A., Bowling Green State U.; Janice M. Wright, M.A., Cleveland State U.

## Human and Consumer Sciences

**Prof:** Margaret King, Ed.D., U. of Massachusetts.

**Assoc. Prof:** Jennifer Chabot, Ph.D., Michigan State U.; Eugene Geist, Ph.D., U. of Alabama, Birmingham; Annette S. Graham, Ph.D., Penn State U.; David Holben, Ph.D., Ohio State U.; Judy Matthews (emerita, part-time), Ph.D., Ohio State U.; V. Ann Paulins (director), Ph.D., Ohio State U.; Matthew Ziff, M. Arch., Virginia Polytechnic Institute and State U.



**Asst. Prof:** Angela C. Baum, Ph.D.; Iowa State U.; Darlene Berryman, Ph.D., Cornell U.; Jae-Eun Chung, Ph.D., Michigan State U.; Lee Cibrowski, Ph.D., Ohio State U.; Schuyler Cone, Ph.D., Ohio State U.; Melani W. Duffrin, Ph.D., Ohio U.; Grace Essex (part-time), M.S., Ohio U.; Gregory R. Janson, Ph.D., Ohio U.; Diana Manchester (part-time), M.S., Ohio State U.; J. David Matthews, M.Arch., Miami U.; Margaret Manoogian Ph.D., Oregon State U.; Michelle Price (part-time), M.F.A., Syracuse U.; Cheryl W. Van Hook, Ph.D., U. of Tennessee; Yingjiao Xu, Ph.D., Louisiana State U.

**Instr:** Francie Astrom (part-time), M.S., Northern Illinois U.

### Nursing

**Prof:** Sharon Denham, D.S.N., U. of Alabama, Birmingham; Esperanza Joyce (director), Ed.D., Nova Southeastern U.; Kathleen Rose-Grippa, Ph.D., Stanford U.

**Asst. Prof:** Emily Harman (interim director), M.S.N., West Virginia U.; Sharon Mullen, Ph.D., Ohio U.; Carla Phillips, Ph.D., Ohio State U.; Therese Snively (part-time), Ph.D., Ohio State U.; Kathleen Tennant, Ph.D., Ohio U.

### Physical Therapy

**Professor:** Gary S. Chleboun, Ph.D., Ohio U.

**Assoc. Prof:** Averell Overby (director), Dr. P.H., U. of Texas.

**Asst. Prof:** Dennis Cade, Ph.D., Ohio U.; Rosalind S. Hickenbottom, Ph.D., Emory U.; Samuel Scott, Ph.D., U. of Kentucky; Betty Sindelar, Ph.D., U. of Washington; James Thomas, Ph.D., U. of Illinois, Chicago.

**Instr:** Janice Howman, B.S., Bowling Green State U.

### Recreation and Sport Sciences

**Prof:** Roger Gilders, Ph.D., Ohio U.; Ming Li, Ed.D., U. of Kansas; Sue Ellen Miller, P.E.D., Indiana U.

**Assoc. Prof:** Matthew Brown, Ed.D., U. of Northern Colorado; David Carr, Ed.D., Virginia Tech U.; Tiff E. Cook (part-time), Ph.D., Walden U.; Charles R. Higgins (emeritus, part-time), Ed.D., U. of North Carolina; Andrew Kreutzer, Ph.D., Ohio U.; Robin Mittelstaedt, Ph.D., U. of Oregon; Beth VanDerveer, Ph.D., Texas Woman's U.

**Asst. Prof:** Susan Bullard, Ph.D., U. of Wisconsin; Ronald Dingle (emeritus, part-time), M.S., U. of Massachusetts; Jennifer Hinton, Ph.D., Clemson U.; David Jacoby (emeritus, part-time), Ph.D., Ohio U.; Andrew Krause, Ph.D., Indiana State U.; Joyce King (emerita, part-time), Ph.D., Ohio State U.; Michael Kushnick, Ph.D., Florida State U.; Nancy Nisbett, Ed.D., U. of California, Davis; Sharon Rana, Ph.D., U. of Nebraska; James Reese, Ed.D., U. of Northern Colorado; Jeffrey Seegmiller, Ed.D., Illinois State U.; Ronald Whitaker (emeritus, part-time), M.Ed., Ohio U.; Richard Woolson (emeritus, part-time), M.Ed., Ohio U.

**Instr:** Trina Bookman (part-time), M.S.P.E., Ohio U.; Mike Crauder (part-time), M.S.A., Ohio U.; Thomas Murray (part-time), M.S.P.E., Ohio U.; Sharon Noel (part-time), M.S.P.E., Ohio U.; Jill Wagner (part-time), M.Ed., Ohio State U.; Jason White (part-time), M.S., Ohio U.; Kristi White (part-time), M.S., Ohio U.

## College of Osteopathic Medicine

### Biomedical Sciences

**Goll Ohio Eminent Research Scholar:** John Kopchick, Ph.D., U. of Texas, Houston.

**Distinguished Prof:** Robert S. Hikida, Ph.D., U. of Illinois.

**Distinguished Senior Scientist:** Leonard Kohn, M.D., Columbia College of Physicians and Surgeons, New York.

**Prof:** Jack Blazyk, Ph.D., Brown U.; Joseph T. Eastman, Ph.D., U. of Minnesota; Fredrick Hagerman (part-time), Ph.D., Ohio State U.; Frank Horodyski, Ph.D., U. of California, San Diego; Peter Johnson, Ph.D., U. of Birmingham; Joseph Jollick (part-time), Ph.D., West Virginia U.; William S. Romoser (part-time), Ph.D., Ohio State U.

**Assoc. Prof:** Huzoor Akbar, Ph.D., Australian National U.; Charles Atkins (emeritus, part-time), Ph.D., North Carolina State U.; Bonita Biegalka, Ph.D., U. of Washington; Audrone Biknevičius, Ph.D., Johns Hopkins U.; Xiao-Zhuo Chen, Ph.D., Ohio U.; Peter Coschigano, Ph.D., Massachusetts Institute of Technology; Kenneth Goodrum, Ph.D., U. of Texas; Marjorie Hagerman (part-time), Ph.D., Ohio U.; John Howell, Ph.D., U. of California, Los Angeles; Calvin B.L. James, Ph.D., Howard U.; Richard Klabunde, Ph.D., U. of Arizona; Felicia Nowak, M.D., Ph.D., Washington U. School of Medicine; Ronald Portanova (part-time), Ph.D., Case Western Reserve U.; Linda Ross (part-time), Ph.D., U. of Texas; Edwin C. Rowland (chair), Ph.D., Wake Forest U.; Robert S. Staron, Ph.D., Ohio U.; Leon C. Winice, Ph.D., West Virginia U.; Lawrence Witmer, Ph.D., Johns Hopkins U.

**Asst. Prof:** Mark Berryman, Ph.D., U. of Virginia; Karen T. Coschigano, Ph.D., Brandeis U. of MA; Mario Grijalva, Ph.D., Ohio U.; Sharon Inman, Ph.D., U. of Louisville; Yang Li, Ph.D., Southern Illinois U.; Patrick O'Connor, Ph.D., SUNY, Stony Brook; Nancy Stevens, Ph.D., SUNY, Stony Brook.

**Instr:** Mary K. Eastman, M.S., Ohio U.; Susan H. Williams, Ph.D., Duke U.

### Department of Family Medicine

**Prof:** John A. Brose (dean), D.O., U. of North Texas/Texas College of Osteopathic Medicine; Anthony G. Chila, D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; Judith W. Rhue, Ph.D., Ohio U.

**Assoc. Prof:** David E. Brown, D.O., U. of Health Sciences, College of Osteopathic Medicine, Kansas City; William J. Burke (Doctors Hospital, Columbus), D.O., Ohio U. College of Osteopathic Medicine; Peter B. Dane, D.O., Michigan State U., College of Osteopathic Medicine; William F. Duerfeldt, D.O., Kirksville College of Osteopathic Medicine; David C. Eland, D.O., Kirksville College of Osteopathic Medicine; Donald R. Furci (Doctors Hospital, Columbus), D.O., Kirksville College of Osteopathic Medicine; Karl E. Harnish, D.O., Chicago College of Osteopathic Medicine; Donna M. Mabry (part-time), Ph.D., Ohio U.; Daniel J. Marazon, D.O., Kirksville College of Osteopathic Medicine; Lenard G. Presutti, D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines; Gerald Rubin, D.O., Philadelphia College of Osteopathic Medicine; Christopher Simpson (chair), D.O., Kirksville College of Osteopathic Medicine; Robert G. Stockmal (part-time), D.O., Ph.D., Philadelphia College of Osteopathic Medicine; Jefferson Medical College; David N. Stroh, D.O., Ohio U. College of Osteopathic Medicine.

**Asst. Prof:** Janet Burns, D.O., Ohio U. College of Osteopathic Medicine; Andrea S. Clem, D.O., Chicago College of Osteopathic Medicine; Carol M. Gaines, D.O., West Virginia School of Osteopathic Medicine; Robert S. Gotfried, D.O., Philadelphia College of Osteopathic Medicine; Eduardo Robles, D.O., Ohio U. College of Osteopathic Medicine; Edward W. Schreck, D.O., Chicago College of Osteopathic Medicine; Jay H. Shubbrook, Jr., D.O., Ohio U. College of Osteopathic Medicine; Martha A. Simpson, D.O., Kirksville College of Osteopathic Medicine; Harold C. Thompson, III, D.O., Chicago College of Osteopathic Medicine; Linda B. Tomc (part-time), D.O., Ohio U. College of Osteopathic Medicine; Geraldine Urse (Doctor's Hospital, Columbus), D.O., Ohio U. College of Osteopathic Medicine; Nicole Wadsworth, D.O., Ohio U. College of Osteopathic Medicine.

### Department of Geriatric Medicine/ Gerontology

**Assoc. Prof:** Allison J. Batchelor (part-time), M.D., Medical College of Ohio at Toledo; Wayne R. Carlsen (chair), D.O., U. of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine; Steven W. Clay, D.O., Kirksville College of Osteopathic Medicine; Tracy L. Marx, D.O., Ohio U. College of Osteopathic Medicine.

**Asst. Prof:** Cynthia E. Luck, D.O., Ohio U. College of Osteopathic Medicine.

### Department of Obstetrics/

### Gynecology

**Assoc. Prof:** Michael J. Clark (part-time), D.O., Kansas City College of Osteopathic Medicine; Jack M. Ramey, D.O., U. of Health Sciences College of Osteopathic Medicine, Kansas City.

**Asst. Prof:** Jane Broecker (part-time), M.D., SUNY at Buffalo School of Medicine and Biomedical Sciences.

### Department of Pediatrics

**Prof:** J. Phillip Jones (emeritus, part-time), D.O., U. of Health Sciences College of Osteopathic Medicine, Kansas City.

**Assoc. Prof:** C. Thomas Clark (chair), D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines; Karen Montgomery-Reagan, D.O., West Virginia School of Osteopathic Medicine.

**Asst. Prof:** Andrew Wapner, D.O., U. of Osteopathic Medicine and Health Sciences, Des Moines.

### Department of Social Medicine

**Prof:** Norman Gevitz (chair), Ph.D., U. of Chicago; Suzanne E. Hatty, Ph.D., U. of Sydney.

**Assoc. Prof:** Marjorie E. Nelson (emerita, part-time), M.D., MPH, Indiana U. School of Medicine, Yale U.; Jacqueline H. Wolf, Ph.D., U. of Illinois, Chicago; Robert M. Woodworth, D.O., MPH, Chicago College of Osteopathic Medicine, U. of Oklahoma Health Sciences Center.

**Asst. Prof:** Gillian H. Ice, Ph.D., MPH, Ohio State U., U. of Minnesota; Douglas D. Mann, Ph.D., Ohio U.

### Department of Specialty Medicine

**Prof:** Paul E. Cadamagnani, D.O., Chicago College of Osteopathic Medicine.

**Assoc. Prof:** Jeffrey S. Benseler (part-time), D.O., Kirksville College of Osteopathic Medicine; Steven G. Carin (chair), D.O., Philadelphia College of Osteopathic Medicine; Gary Cordingley (part-time), M.D., Duke U. Medical Center; James E. Foglesong, D.O., Kirksville College of Osteopathic Medicine; Edward A. Gotfried, D.O., Philadelphia College of Osteopathic Medicine; Scott A. Jenkinson, D.O., Ohio U. College of Osteopathic Medicine; James E. Sammons, Jr., D.O., Ohio U. College of Osteopathic Medicine; Michael W. Tomc, D.O., Ohio U. College of Osteopathic Medicine.

**Asst. Prof:** Janice R. Carrick (part-time), D.O., College of Osteopathic Medicine of the Pacific; Jeffrey F. McAdoo (part-time), M.D., Ohio State U. College of Medicine; Mark F. McGee (part-time), M.D., Ohio State U. College of Medicine; John W. Murrey (part-time), D.O., Kirksville College of Osteopathic Medicine; Neal James Nesbitt (part-time), M.D., UCLA; Kendall Stewart (part-time), M.D., Medical College of Georgia; Nili Urieli (part-time), D.O., Ohio U. College of Osteopathic Medicine; Farid Zehtab, D.O., Western University-COMP.

## University College

### Aerospace Studies

**Prof:** Bryan Neuhaus, M.A.S. Engineer Management, Air Force Institute of Technology (AFIT)

**Asst. Prof:** Alisa Thomas, M.A., Public Administration, U. of Wyoming; Tanyah Stone, M.S. Aero Science Technology; Embry Riddle U.

### Military Science

**Prof:** David W. Chase, M.S., Human Resources, Troy State U.

**Asst. Prof:** Geraldine Shutt, M.B.A., Ohio U.; Anthony A. Eaglowski, Jr., M.B.A., Ohio U.; Brent A. Schultz, B.S., Communications, U. of Rio Grande.

## Regional Higher Education

### Chillicothe Campus

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# Ohio Residency

**It is the responsibility of the student to report a change of residency from an Ohio resident to a non-Ohio resident at the Office of Undergraduate Admissions.**

**If the student's residency has changed to an Ohio resident, s/he must file a residency petition with the Office of Undergraduate Admissions.**

**No change of residency can be made until the residency petition has been approved by the Residency Officer.**

**Questions concerning residency should be directed to the Residency Officer in the Office of Undergraduate Admissions.**

**The residency rules described below were adopted by the Ohio Board of Regents effective November 1, 1989. The rules are subject to change without notice by the Ohio Board of Regents or the Ohio General Assembly.**

## 3333-1-10 OHIO STUDENT RESIDENCY FOR STATE SUBSIDY AND TUITION SURCHARGE PURPOSES

### A. Intent and Authority

1. It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the State of Ohio primarily for the purpose of receiving the benefit of a state-supported education.

2. This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Revised Code.

### B. Definitions

1. "Resident" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state public assistance, and who may be subjected to tax liability under Section 5747.02 of the Revised Code, provided such person has not within the time prescribed by this rule, declared himself or herself to be allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.

2. "Financial Support" as used in this rule, shall not include grants, scholarships and awards from persons or entities that are not related to the recipient.

3. An "institution of higher education" shall have the same meaning as "state institution of higher education" as that term is defined in Section 3345.011 of the Revised Code, and shall also include private medical and dental colleges that receive direct subsidy from the state of Ohio.

4. "Domicile" as used in this rule is a person's permanent place of abode, so long as the person has the legal ability under federal and state law to reside permanently at that abode. For the purposes of this rule, only one (1) domicile may be maintained at a given time.

5. "Dependent" shall mean a student who was claimed by at least one parent or guardian as a dependent on that person's Internal Revenue Service tax filing for the previous tax year.

6. "Residency Officer" means the person or persons at an institution of higher education that has the responsibility for determining residency of students under this rule.

7. "Community Service Position" shall mean a position volunteering or work for: (a) VISTA, AmeriCorps, City Year, the Peace Corps, or any similar program as determined by the Ohio Board of Regents, or (b) An elected or appointed public official for a period of time not exceeding 24 consecutive months.

### C. Residency for Subsidy and Tuition Surcharge Purposes

The following persons shall be classified as residents of the State of Ohio for subsidy and tuition surcharge purposes:

1. A student whose spouse, or a dependent student, at least one of whose parents or a legal guardian, has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of the student in an institution of higher education.

2. A person who has been a resident of Ohio for all other legal purposes for at least 12 consecutive months immediately preceding his or her enrollment in an institution of higher education and who is not receiving, and has not directly or indirectly received in the preceding 12 consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.

3. A dependent student of a parent or legal guardian, or the spouse of a person, who as of the first day of a term of enrollment, has accepted full-time self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates. Documentation of full-time employment and domicile shall include all of the following documents:

a. A sworn statement from the employer or the employer's representative on the letterhead of the employer or the employer's representative certifying that the parent, legal guardian or spouse of the student is employed full-time in Ohio.

b. A copy of the lease under which the parent, legal guardian or spouse is the lessee and occupant of rented residential property in the state; a copy of the closing statement on residential real property located in Ohio of which the parent, legal guardian or spouse is the owner and occupant; or if the parent, legal guardian or spouse is not the lessee or owner of the residence in which he or she has established domicile, a notarized letter from the owner of the residence certifying that the parent or spouse resides at that residence.

c. In addition to the above, a letter from the parent verifying the dependent status of the student.

**D. Additional criteria which may be considered in determining residency for these purposes may include but are not limited to the following:**

1. Criteria evidencing residency:

- a. If a person is subject to tax liability under Section 5747.02 of the Revised Code;
- b. If a person qualifies to vote in Ohio;
- c. If a person is eligible to receive Ohio public assistance;
- d. If a person has an Ohio driver's license and/or Motor Vehicle Registration

2. Criteria evidencing lack of residency:

- a. If a person is a resident of or intends to be a resident of another state or nation for the purposes of tax liability, voting, receipt of public assistance, or student loan benefits (if the student qualified for that loan program by being a resident of that state or nation);
- b. If a person is a resident or intends to be a resident of another state or nation for any purpose other than tax liability, voting, or receipt of public assistance (see paragraph (D)(2)(a) of this rule).
- 3. For the purpose of determining residency for tuition surcharge purposes at Ohio's state-assisted colleges and universities, an individual's immigration status will not preclude an individual from obtaining resident status if that individual has the current legal status to remain permanently in the United States.

**E. Exceptions to the General Rule of Residency for Subsidy and Tuition Surcharge Purposes**

- 1. A person who is living and is gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who is pursuing a part-time program of instruction at an institution of higher education shall be considered a resident of Ohio for these purposes.
- 2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
- 3. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes.
- 4. A person who is transferred by his employer beyond the territorial limits of the fifty states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile and as long as such person has fulfilled his or her tax liability to the State of Ohio for at least the tax year preceding enrollment.
- 5. A person who has been employed as a migrant worker in the State of Ohio and his or her dependents shall be considered a resident for these purposes provided such a person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.
- 6. A person who was considered a resident under this rule at the time the person started a community service position as defined under this rule, and his or her spouse and dependents, shall be considered residents of Ohio while in service and upon completion of service in the community service position.

7. A person who returns to the state of Ohio due to marital hardship, takes or has taken legal steps to end a marriage, and reestablishes financial dependence upon a parent or legal guardian (receives greater than 50% of his or her support from the parent or legal guardian), and his or her dependents shall be considered residents of Ohio.

8. A person who is a member of the Ohio National Guard and who is domiciled in Ohio, and his or her spouse and dependents, shall be considered residents of Ohio while the person is in Ohio National Guard service.

**F. Procedures**

1. A dependent person classified as a resident of Ohio for these purposes under the provisions of paragraph C(1) of this rule and who is enrolled in an institution of higher education when his or her parents or legal guardian remove their residency from the State of Ohio shall continue to be considered a resident during continuous full-time enrollment and until his or her completion of any one academic degree program.

2. In considering residency, removal of the student or the student's parents or legal guardian from Ohio shall not, during a period of twelve months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraphs C(1) or C(2) of this rule.

3. For students who qualify for residency status under paragraph C(3) of this rule, residency status is lost immediately if the employed

person upon whom resident student status was based accepts employment and establishes domicile outside Ohio less than 12 months after accepting employment and establishing domicile in Ohio.

4. Any person once classified as a non-resident, upon the completion of twelve consecutive months of residency, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident.

Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding twelve consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident.

Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of documentation regarding the sources of a student's actual financial support.

5. Any reclassification of a person who was once classified as a non-resident for these purposes shall have prospective application only from the date of such reclassification.

6. Any institution of higher education charged with reporting student enrollment to the Ohio Board of Regents for state subsidy purposes and assessing the tuition surcharge shall provide individual students with a fair and adequate opportunity to present proof of his or her Ohio residency for purposes of this rule. Such an institution may require the submission of affidavits and other documentary evidence which it may deem necessary to a full and complete determination under this rule.

Revised by the Ohio Board of Regents on July 28, 2003.



# Student Records Policy

## Underlying Principles

Ohio University's commitment to its educational mission and to the students and society it is obligated to serve demands that it maintain various records. No education records will be maintained that are not directly related to the basic purposes of the University. All policies and practices governing the collection, maintenance, review, and release of records will be based upon the principles of confidentiality and the student's right to privacy, consistent with the Family Educational Rights and Privacy Act of 1974. This policy shall govern the collection, maintenance, review, and release of student records on the Athens and regional campuses of Ohio University. A student is herein defined to mean any person for whom the University maintains education records or personally identifiable information, but does not include a person who has not been in attendance at the University or any of its regional campuses.

### Types of Records

The University recognizes two general types of records: education records and unofficial records.

#### A Education Records

Education records are those records which are directly related to a present or former student in any form (e.g., print, electronic, microfilm, etc.), which contain information directly related to a present or former student, and which are maintained by the University or by a person acting for the University. Education records shall be subject to the principles regarding collection, maintenance, review, and release which are described below.

Education records include, but are not limited to, the following:

- 1 Admissions records maintained by the Office of Admissions, the College of Osteopathic Medicine, and the Office of Graduate Student Services. The director of admissions, the dean of the College of Osteopathic Medicine, or the associate provost for graduate and research programs are the official custodians of these records;
- 2 Academic records maintained by the dean of the student's college; academic departments; the Registrar's Office; and the Office of Lifelong Learning. The registrar, the deans of the colleges, or the chairpersons of the departments are the official custodians of these records;
- 3 Disciplinary records maintained by the University Judiciary. The director of Judiciary is the official custodian of these records;
- 4 Financial aid and student employment records maintained by the Office of Student Financial Aid and Scholarships. The director of the Office of Student Financial Aid and Scholarships is the official custodian of these records;
- 5 Placement records maintained by the Office of Career Services. The director of Career Services is the official custodian of these records;
- 6 Housing records, including contract and lease agreements, maintained by the Housing Office. The director of Housing is the official custodian of these records;
- 7 Financial records by offices, which initiate, collect, and record fees assessed and paid;
- 8 International student records. The director of International Student and Faculty Services is the custodian of these records;
- 9 Any and all other records not specifically designated as unofficial records under subsection b, maintained by a University office or agency as essential to fulfilling the basic purpose and responsibility of the office or agency. The

University official responsible for that office or agency is the official custodian of these records.

#### B Unofficial Records

Unofficial records include:

- 1 Records of institutional, supervisory, and administrative personnel, and faculty and educational personnel ancillary thereto which are in the sole possession of the maker thereof and which are not accessible by or revealed to any other person except a substitute. A substitute means an individual who performs on a temporary basis the duties of the individual who made the record and does not refer to an individual who permanently succeeds the maker of the records in his or her position;
- 2 Records and documents of the Department of Campus Safety, provided that the records and documents are kept apart from the records described in subsection a. of this section, which are maintained solely for law enforcement purposes, and which are not available to persons other than law enforcement officials of the same jurisdiction or other University law enforcement personnel;
- 3 In the case of persons who are employed by the University but who are not in attendance, records made and maintained in the normal course of business which are related exclusively to such person in his or her capacity as an employee and which are not available for use for any other purpose;
- 4 Records which are created or maintained by a physician, psychiatrist, psychologist, or other recognized professional or paraprofessional acting in his or her professional capacity, and which are created, maintained, or used only in connection with the provision of treatment to the student, and which are not available to anyone other than persons providing such treatment, provided, however, that such records can be personally reviewed upon written notice by the student, by a physician, or by other appropriate professional of the student's choice;
- 5 Directory information—the following information will be considered public or directory information, and may be published in a University publication:
  - the student's name,
  - local and permanent addresses,
  - local and permanent telephone numbers,
  - campus e-mail address,
  - date and place of birth,
  - current major program(s)
  - participation in officially recognized activities and sports,
  - weight and height of members of athletic teams,
  - dates of enrollment at Ohio University,
  - degrees and awards received from Ohio University, including dates and major programs,

- the most recent previous educational agency or institution attended by the student,
- student's "also known as" (AKA) name,
- student standing and degree level (first-year, undergraduate, second-year graduate, etc.),
- enrollment status (full-time, etc.), including total hours enrolled, by term
- primary advisor,
- expected graduation date,
- current college and campus,
- residency status (Ohio resident, out-of-state),
- admission status (new, continuing, etc.),
- record hold(s),
- deceased status,
- and other similar information.

The University shall give public notice of the categories of information that shall be considered public or directory information, and shall allow a reasonable period of time after such notice has been given for a student to inform the University, by filing a *Request for Confidentiality* with the registrar's office, that none of the information so designated should be released without the student's prior consent.

#### Maintenance of Records

Education records shall be maintained only by University administrative personnel assigned responsibility for each of the types of records listed in the Types of Records section above. All University personnel involved in the handling and maintenance of education records shall be instructed concerning the confidential nature of such information and their responsibilities regarding it, pursuant to this policy and the Family Educational Rights and Privacy Act of 1974. This instruction should be a part of each office's orientation procedure.

#### Persons Authorized to Place Materials in Records Files

Only the following qualified persons are permitted to place information in an education records file: personnel in the office or agency responsible for maintaining the files, and the individual student or others at the request of and, therefore, with the consent of the student.

#### Challenging or Removing File Contents

A student has the right to a formal hearing, pursuant to and in compliance with sections 99.20 through 99.22 of the Regulations to the Family Educational Rights and Privacy Act of 1974, to challenge the content of such student's education records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of students, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein, and to insert into such records a written explanation respecting the content of such records.

However, the student shall first attempt to informally resolve his or her grievance through the department chair, dean of his or her college, or, in the case of other records, through the administrative officer responsible for maintaining the records. The office responsible for maintaining the records may charge a reasonable fee, but not more than \$2 per page, for the reproduction of the records. The department chair, dean, or administrative officer, after careful review of the facts surrounding the challenge, shall inform the student, in writing and within five (5) days after the student presents the challenge, of his or her decision and any corrective action that will be taken.

If the student is dissatisfied with the results of his or her informal challenge through the department chair, dean, or administrative officer, he or she shall then file a formal complaint.

#### Student Access to Records

A student who is or has been in attendance at Ohio University shall have the right to inspect and review the contents of his or education records, subject only to reasonable arrangements concerning time, place, supervision, and cost of reproduction of the records, but in no case shall the time be more than thirty (30) days after a request has been made. Costs of each reproduction shall not be greater than \$2 per page. Exceptions to this general right of review are:

- a Confidential financial records of the student's parents or any information contained therein;
- b Confidential letters and statements of recommendation, which were placed in the education records prior to January 1, 1975, as long as such letters or statements are not used for purposes other than those for which they were specifically intended, as determined by the administrative officer responsible for the office or agency where the record is kept;
- c Unauthorized access to computer/electronic files;
- d If the student has signed a waiver of the student's right of access under this section and the Family Educational Rights and Privacy Act of 1974, confidential recommendations respecting admission to any educational agency or institution, respecting an application for employment, or respecting the receipt of an honor or honorary recognition.

A student or a person applying for admission may waive his or her right of access to confidential statements described in subsection b. of this section, except that such waiver shall apply to recommendations only if the student is, upon request, notified of the names of all persons making confidential recommendations, and such recommendations are used solely for the purpose for which they were specifically intended. The student may revoke, in writing, the previous waiver of his or her right to access to confidential statements or recommendations. Such revocation shall only apply to confidential statements or recommendations placed in the record after the waiver has been revoked. Such waivers may not be required as a condition for admission to, receipt of financial aid from, or receipt of any other services or benefits from the University.

#### Release of Student Records

Student records at Ohio University are held in trust by the University for the mutual benefit of the student and the educational mission of the University. Therefore, except with the prior written consent of the student, or as otherwise stated below, no information in any student education record file may be released to any individuals or organization.

- a Record-keeping personnel may have access to student education records according to the conditions stipulated in the Maintenance of Records section above.
- b Members of the faculty and staff and other persons demonstrating a legitimate educational

interest may have access to student education records for internal educational purposes or for necessary administrative and statistical purposes only. The legitimate educational interest will be determined by the University official responsible for the particular student's education record. Legitimate educational interest is used here in its traditional and classical sense. It means that, in order to serve students and the University, careful, considerate, and responsible judgments must be made by professional people who are responsible and accountable for these judgments. The rights of grievance and appeal are available to the student through the responsible official.

c Direct access to financial, medical, psychological, and placement files is limited to the professional and clerical staff responsible for those matters.

d Directory information—please refer to Category B, "Unofficial Records," subsection 5, above.

e Direct access to disciplinary files is limited to the staff of the Office of Judicial Affairs and the Office of Legal Affairs, and the dean of students and his or her immediate staff. This section shall not be construed so as to prohibit the Office of Legal Affairs from advising appropriate University offices that demonstrate a legitimate educational interest in the facts and disposition of a particular disciplinary case, nor shall it be construed so as to prohibit the Office of Judicial Affairs from advising any person demonstrating a need to know as to whether a disciplinary file does or does not exist.

f Medical and psychological information is legally confidential and privileged. It will not be released to anyone without the express written authorization of the individual involved. In such cases, the individual must designate what information is to be released and to whom that information is to be released.

g Notwithstanding the provisions of subsections a-f of this section:

1 Education records will be released on compliance with a judicial order, or pursuant to any lawfully issued subpoena, upon condition that the student is reasonably notified of all such orders or subpoenas in advance of the compliance therewith by the University.

2 Records, or information from records containing personally identifiable information, may be made available to officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the records if desired, and has an opportunity for a hearing to challenge the content of the record.

3 Records or information from records containing personally identifiable information may be released in connection with a student's application for or receipt of financial aid.

4 Records or information from records may be released to the parents of a dependent student, as defined in Section 152 of the Internal Revenue Code of 1954. The University presumes for this purpose only that all students are independent. The parents of a student have the burden to show dependent status as defined in Section 152 of the Internal Revenue Code of 1954.

5 Records or information from records may be released to the categories of persons or institutions designated in Section 438(b)(1)(C), 438(b)(1)(E), and 439(b)(3) of the Family Educational Rights and Privacy Act of 1974, and sections 99.30(a)(2), and 99.31 through 99.36 of the regulations thereto.

6 Records or information from records may be released to organizations conducting studies for or on behalf of educational agencies or institutions for the purpose of developing, validating, or administering predictive tests; administering student aid programs; and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their

parents by persons other than representatives of such organization, and such information will be destroyed when no longer needed for the purposes for which it was released.

7 Records or information from records may be released to accrediting organizations in order to carry out their accrediting functions.

8 Records or information from records may be released to appropriate persons if the knowledge of such information is necessary to protect the health or safety of the student or other persons.

9 The University officials responsible for implementing the Student Records Policy and ensuring compliance with the Family Educational Rights and Privacy Act of 1974 are the vice president for administration with the assistance of the dean of students and the director of legal affairs. The University ombudsman may examine all education records of a student upon authorization by the student or the director of legal affairs.

#### Record of Access

Each office shall keep with the education records of each student a record which will specifically indicate the legitimate interest that each such person, agency, or organization, other than other school officials and persons designated in the Release of Student Records section above, has in obtaining this information. Such record of access shall be available only to the student, the school official, and his or her assistants who are responsible for the custody of such records, and to persons or organizations authorized to conduct an audit pursuant to the Family Educational Rights and Privacy Act of 1974. The record should include the name of the individual or agency requesting information, reason for the request, date of the request, and the disposition of the request. The office responsible for the records shall, upon a request in writing by the student, provide a copy of the records disclosed and charge the appropriate fees therefrom. Education records or information therefrom shall be transferred to a third party only on the condition that such party will not permit any other party to have access to such information without the written consent of the student.

#### Retention of Records

Each recordkeeping office will establish and make available a reasonable and justifiable policy regarding the retention of records after the separation of the student from the University. Where legal statutes govern retention, such policies shall be in accordance with those statutes.

#### Holds on Release of Records

Unmet University financial obligations or pending disciplinary cases may result in a hold being placed on the release of student records. The office originating the hold must inform the student in writing that it has initiated such action. Copies of hold notices will be maintained by the originating office or agency and will serve as verification that written notification has been provided to the student.

#### Incorporation of Federal Law

The Family Educational Rights and Privacy Act of 1974, and the regulations enacted in pursuance thereof, are hereby incorporated by reference into this policy, and to the extent that this policy conflicts with the law and/or regulations, the law and/or regulations shall take precedence.

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